

CURRICULUM VITAE



Ir. Ts. Dr. Abd. Rahim Bin Abu Talib, P.Eng, P.Tech

Professor/ Head

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SCOPUS ID: 21741790100,

h-index: 15 (Scopus), 16 (Google Scholar) Citations: 728 (Scopus), 1105 (Google Scholar)



Education

- 1. 2003 Doctor of Philosophy in Engineering Science, University of Oxford, U.K.
- 2. 1998 B.Eng (hons.) in Aeronautical Engineering, University of Salford, U.K.
- 3. 1994 A-Levels and IELTS, PPP/ITM, Shah Alam, Selangor D.E. Malaysia
- 4. 1992 Sijil Pelajaran Malaysia (SPM), Kolej Islam Sultan Alam Shah, Klang, Selangor D.E. Malaysia
- 5. 1990 Sijil Rendah Pelajaran (SRP), Sek. Men. Keb. Agama Maahad, Muar, Johor D.T. Malaysia











Areas of Interest

Aerodynamic, Heat Transfer and Propulsion, Sustainable Aviation and Materials.

Professional Qualification/ Membership/ Affiliation

1.	Professional Technologist, Malaysia Board of Technologist (MBoT) PT17100016	2017 to date
2.	Graduate Technologist, Malaysia Board of Technologist (MBoT) GT17100007	2017
3.	Member, Aerospace Society of Malaysia (AEROS) - 00019	2017 to date
4.	Member, Sustainable Aviation Research Society (SARES)	2016 to date
5.	Professional Engineer with Practicing Certificate, Board of Engineers Malaysia C1-16516	2016 to date
6.	Fellow, Malaysian Society of Engineering and Technology (FMSET) - 00095	2016 to date
7.	Professional Engineer, Board of Engineers Malaysia (BEM) - 16516	2014 – 2016
8.	Ordinary Member, Malaysian Society of Engineering and Technology (MySET) - 00095	2008 - 2016
9.	Graduate Member, Board of Engineers Malaysia (BEM) 43450-A	2003 – 2014
10.	Member, American Society of Mechanical Engineers (ASME)	2000 – 2018
11.	Student Member, Royal Aeronautical Society (RAeS)	1996 – 1998



	Appointments	
Po	sition	Duration
1.	Professor Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia	1.6.2020 to date
2.	Head Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia	1.10.2017 to date
3.	Deputy Director Corporate Strategy and Communications, Office of the Vice Chancellor, Universiti Putra Malaysia Roles: Responsible for the Corporate Communications for UPM. Major Achievements: Successfully delivered the corporate publication for UPM including Tribun Putra, Corporate Profile, Diary and Calendar. The media coverage for UPM in 2017 has reached 7000 in news, articles and clips. There are three major PUTRA Bakti activities organised at the UPM level. The event organisation performance has achieved above 80% management effectiveness index for six major events in 2017.	1.10.2016 – 30.9.2017
4.	Head of Aerospace	2014 – 2015

Head of Aerospace

Industry Intelligence Division, Malaysia Industry-Government for High Technology – MiGHT (320059P)

Responsible for the aerospace and rail industry sector development.

Major Achievements: Co-authored and successfully published the 2nd Aerospace Industry Blueprint 2030 and launched of the blueprint during LIMA 2015 in Langkawi by the Prime Minister. Also involved in the aerospace industry inter agency committee for the new EPP8 for Aerospace Manufacturing SME development and the ongoing EPP 5 and 7 under Business Services NKEA. Actively involved as subject matter expert and managed the technology transfer programme for human capital training modules for Rail rolling stock with China Southern Rail company and KTMB. Also responsible as subject matter expert for the Rail signalling and communications training modules technology transfer with THALES company in France, Portugal and Spain under the offset programme organised by Technology Depository Agency.

5. Senior General Manager

MIGHT-METEOR Advanced Manufacturing Sdn. Bhd. – MMAM (570935-P)

Roles: In charge of the operation of the company that includes governance, finance and procedures. Major Achievements: Successfully delivered the Human Capital Development training programme called National Talent Enhancement Programme (NTEP) for Rail Sector funded by PEMANDU. Also involved in the technology transfer under ICPD programme to FELDA and LEADER Aerospace Programme funded by the Ministry of Higher Education (MoHE).

2012 - 2014 MIGHT METEOR

6. Chief Operating Officer

Aerospace Malaysia Innovation Centre - AMIC (944751-A)

Responsible to look after the technical aspect of project management and programme development.

Major Achievements: Successfully established the governance for the newly formed company linked by guaranteed in terms of staff manuals, finance, and research & technology guidelines. Managed to conduct a series of board of directors meeting that consist of representatives from Rolls Royce, Airbus, CTRM, MIGHT and UPM. AMIC also successfully being launched during LIMA 2011 by the Prime Minister.

7. Associate Professor,

Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia

1.2.2010 - 31.5.2020



8.	Deputy Dean Academic, Student Affairs, Alumni, and Industry-Society Network, Faculty of Engineering, UPM	1.8.2009 – 1.11.2011
9.	Senior Lecturer Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia	2008 – 2010
10.	Head Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia	1.11.2007 – 31.7.2009
11.	Lecturer Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia	2003 – 2007
12.	Laboratory Demonstrator, Osney Laboratory, Department of Engineering Science, University of Oxford, UK	2001 – 2002
13.	Tutor , Department of Aerospace Engineering, Faculty of Engineering, Universiti Putra Malaysia	1998 – 2003

	Teachings	
Und	dergraduate Programme	
		<u>Credits</u>
1.	EAS3513 Propulsion	3(3+0)
2.	EAS4947 Aerospace Design Project	4(0+4)
3.	EAS3123 Management of Aerospace Industry	3(3+0)
4.	EAS4501 Air Breathing Engine	3(3+0)
5.	EAS3923 Aerospace Laboratory III (Propulsion)	1(0+1)
6.	EAS3103 Management of Aerospace Industry and Agriculture	2(2+0)
7.	EAS3921 Aerospace Laboratory I (Thermofluids)	1(0+1)
8.	EAS3211 Thermofluids	3(3+0)
9.	EAS3511 Aerothermodynamics	3(3+0)
10.	EAS3503 Propulsion	3(3+0)
11.	KAA3512 Heat Transfer	2(2+0)
12.	KAA3511 Thermodynamics	3(3+0)
13.	KAA3513 Propulsion	3(3+0)
14.	KAA3403 Propulsion II	3(3+0)
15.	KAA3202 Aerodynamics II	3(3+0)
16.	KAA3802 Power Generation System	3(3+0)
Pos	tgraduate Programme	
4	5455400 D	- ()
1.	EAS5100 Research Methodology	3(3+0)
2.	EASS107 Entrepreneurship in Innovation	3(3+0)
3.	EASS105 Innovation Studies	3(3+0)
4.	EAS5103 Group Business and Design Project	3(3+0)
5.	EAB5900 Research Methodology	3(3+0)

	Publications
Journals	

6.

7.

EAS5101 Innovation Studies 1

KAA4203 Innovation Studies 1

- 1. Ali Hilo, **A R Abu Talib**, A.A Iborra, M.T.H. Sultan, and M.F Abdul Hamid (**2020**), Effect of Corrugated Wall Combined with Backward-Facing Step Channel on Fluid Flow and Heat Transfer, Energy, 190: 116294 (**Top 10%**, **JCR Q1**, **I.F = 5.537**).
- 2. Ali Hilo, **A R Abu Talib**, A.A Iborra, M.T.H. Sultan, and M.F Abdul Hamid (**2020**), Experiment study of nanofluids flow and heat transfer over a backward-facing step channel, Powder Technology, 372: 497-505 (**JCR Q1**, **I.F = 3.413**)
- 3. S. Salman, A.R Abu Talib, S. Saadon, M.T.H. Sultan (2020), Hybrid Nanofluid Flow and Heat Transfer Over Backward and Forward Steps: A Review, Powder Technology, 363: 448-472 (JCR Q1, I.F = 3.413)
- 4. S.N.I.H Ahmad Nadzri, M.T Hameed Sultan, A.U Md Shah, S.N.A Safri, A.R Abu Talib, M Jawaid, and A.A Basri (2020), A

3(3+0)

3(3+0)



- Comprehensive Review of Coconut Shell Powder Composites: Preparation, Processing and Characterization, Journal of Thermoplastics Composite Materials, *InPress* (JCR Q3, I.F = 1.343)
- 5. M.H. Mat Yazik, M.T Hameed Sultan, N. Mazlan, **A.R Abu Talib**, Naveen J, A.U Md Shah, S.N.A Safri, Effect of Hybrid Multi-Walled Carbon Nanotube and Montmotillonite Nanoclay Content on Mechanical Properties of Shape Memory Epoxy Nanocomposite, Journal of Materials Research & Technology, 9(3): 6085-6100 (**JCR Q1, I.F = 3.327**).
- 6. Y.S.M Alterazi, **A.R Abu Talib**, S. Saadon, J. Yu, E. Gires, M.F Abdul Ghafir, and J. Lucas (**2020**), On-Design Operation and Performance Characteristics of Custom Engine, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 70(1): 144-154 (**Scopus Index**).
- 7. N. Bheekhun and A.R Abu Talib (2020), Auditing the Aerospace Industry in Southeast Asia: 9100 Series, Journal of Aeronautics, Astronautics and Aviation, 52(1): 115-122 (ESCI, Scopus Index).
- 8. L.C Leong, A.R Abu Talib, and V. Indiran (2020), Professional Pathway for Civil Aviation Authority of Malaysia (CAAM) Aircraft Maintenance License Holder Registered at BEM, Journal of Aeronautics, Astronautics and Aviation, 52(1): 105-114 (ESCI, Scopus Index).
- 9. I. Muhammad and A.R Abu Talib (2020), Strength Behaviour of Silica Aerogel/Thermoset Polymer with Reinforced Fibre-metal Laminate Composites, Journal of Aeronautics, Astronautics and Aviation, 52(1): 15-24 (ESCI, Scopus Index).

- 10. A.M.R Azmi, M.T.H Sultan, M. Jawaid, A.U.M Shah, A.F.M Nor, M.S.A Majid, and **A.R Abu Talib** (2019), Impact Properties of Kenaf/X-Ray Films Hybrid Composites for Structural Applications, Journal of Materials Research and Technology, 8(2): 1982-1990 (JCR Q1, I.F = 3.327).
- 11. S.Q Bootan, E.E Supeni, M.K.A Ariffin and **A.R Abu Talib** (2019), RSM Approach for Modelling of Designing Parameters for Inclined Fins of Solar Air Heater, Renewable Energy, 136: 48-68 (JCR Q1, I.F = 5.439).
- 12. S.Q Bootan, E.E Supeni, M.K.A Ariffin and **A.R Abu Talib** (2019), Numerical investigation of flow through inclined fins under absorber plate of solar air heater, Renewable Energy, 141: 468-481 (JCR Q1, I.F = 5.439).
- 13. I. Muhammad and **A.R Abu Talib**, Burn-through Responses of Aero-engine Nacelle using Fibre Metal Composite by ISO2685 Burner, International Journal of Recent Technology and Engineering, 8(4): 9235-9238 (**Scopus Index**).
- 14. S. Salman, **A.R Abu Talib**, A. Hilo, S.R Nfawa, M.T.H Sultan and S. Saadon, (**2019**) Numerical Study on the Turbulent Mixed Convective Heat Transfer over 2D Microscale Backward-Facing Step, CFD Letters, 11(10): 31-45 (**Scopus Index**)
- 15. S.R Nfawa, A.R Abu Talib, A.A Basri, S.U Masuri, and H. Hasini (2019), Heat Transfer Enhancement in A Corrugated-Trapezoidal Channel Using Winglet Vortex Generators, CFD Letters, 11(10): 69-80 (Scopus Index)
- 16. M F Mohd Zulkeple, A R Abu Talib, E Gires, M T Hameed Sultan (2019), Microencapsulation and Thickness Effect on the Occurrence of Hysteresis of Thermochromic Liquid Crystal Calibration, Journal of Aeronautics, Astronautics and Aviation, 51(2): 171-181 (ESCI, Scopus Index).
- 17. **A.R Abu Talib**, W. Rujhan, I Mohammed, N.I Bheekhun (**2019**) Effect of Different Weightage of Enova[©] IC3100 Silica Aerogel on Aluminium Alloy Composites in ISO2685 Aviation Standard Fire-Test, International Journal of Sustainable Aviation, 5(1): 44-53 (**ESCI**)
- 18. **A R Abu Talib**, I Mohammed, N Mohamad Damshal, and M J Suleiman@Ahmad (2019), Physical and Mechanical Properties of Fireproof Inconel 718 with Palm Stearin and Stearic Acid Binder, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 54(1): 112-123 (**Scopus Index**).
- 19. M F Mohd Zulkeple, A R Abu Talib, E Gires, M T Hameed Sultan (2019), Investigation on the Effect of Sample Preparation on the Performance of Thermochromic Liquid Crystal, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 54(2): 150-164 (Scopus Index).
- 20. Ali Hilo, **A R Abu Talib**, Sadeq R. Nfawa, M.T.H.Sultan, M.F Abdul Hamid and M.I Nadiir Bheekhun (**2019**), Heat Transfer and Thermal Conductivity Enhancement using Graphene Nanofluid: A Review, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 55(1): 74-87 (**Scopus Index**).
- 21. I Mohammed and **A.R Abu Talib** (2019), Mechanical properties of carbon fibre reinforced aluminium laminates using two different layering pattern for aero engine application, Advances in Materials and Processing Technologies, Taylors & Francis, 5(1): 123-131, DOI: 10.1080/2374068X.2018.1530427, (**Scopus Index**).

- 22. Ariff F.M Noor, Mohamed T.H Sultan, Mohammad Jawaid, **Abd. R. Abu Talib**, Ahmad M.R Azmi, Ahmad S. Harmaen and Ainun Z.M Asa'ari (**2018**), The Effects of Multi-Walled CNT in Bamboo/Glass Fibre Hybrid Composites: Tensile and Flexural Properties, BioResources, 13(2): 4404-4415 (**JCR Q2**, **I.F = 1.396**).
- 23. Ahmad M.R Azmi, Mohamed T.H Sultan, Mohammad Jawaid, **Abd. R.A Talib**, Ariff F.M Noor (**2018**), Tensile and Flextural Properties of a Newly Developed Bulletproof Vest using a Kenaf/X-ray Film Hybrid Composite, BioResources, 13(2): 4416-4427 (**JCR Q2, I.F = 1.396**).
- 24. I Mohammed, A.R Abu Talib, M T H Sultan and S Saadon (2018), Mechanical Properties of Fibre-Metal Laminates Made of Natural/Synthetic Fibre Composites, BioResources, 13(1): 2022-2034 (JCR Q2, I.F = 1.396).
- 25. N. Bheekhun, **A.R Abu Talib**, M.R Hassan (**2018**), Tailoring Aerogel for Thermal Spray Applications in Aero-Engine: A Screening Study, Advances in Materials Science and Engineering, Vol. 2018, Article ID 5670291, 1-11, (**JCR Q4, I.F = 1.399**).



- 26. **A.R Abu Talib**, and N. Bheekun (**2018**), Feasibility Study of a Novel Aerogel-Based Thermally Sprayed Coating, Journal of Engineering Science and Technology, 12: 1-9 (**Scopus Index**).
- 27. N.A Mohd Nasir, S. Saadon and A.R Abu Talib (2018), Performance analysis of an Organic Rankine Cycle (ORC) system for waste heat recovery of turbofan engine, International Journal of Engineering & Technology, 7(4): 120-124 (Scopus Index)
- 28. M.F Abdul Hamid, A.S Mohd Rafie, E. Gires and **A.R Abu Talib** (2018), Lift Force for Cylindrical and Elliptical Coandă Aircraft Design, International Journal of Engineering & Technology, 7(4): 137-140 (Scopus Index)
- 29. A. Hilo, **A.R Abu Talib**, S.R. Nfawa, M.T Hameed Sultan and M.F Abdul Hamid (**2018**), Review of Improvements on Heat Transfer using Nanofluids via Corrugated Facing Step, International Journal of Engineering & Technology, 7(4): 160-169 (**Scopus Index**)
- 30. M F Mohd Zulkeple, **A.R Abu Talib**, E Gires, M T Hameed Sultan and M S Ramli (**2018**), Heat Transfer Performance of Multiple Holes Impingement Cooling Technique, International Journal of Engineering & Technology, 7(4): 43-5 (**Scopus Index**)
- 31. I Mohammed, **A.R Abu Talib**, Mohamed T.H Sultan and S Saadon (**2018**), Fire behavioural and mechanical properties of carbon fibre reinforced aluminium laminate composites for aero-engine, International Journal of Engineering & Technology, 7(4): 22-27 (**Scopus Index**)
- 32. N. Bheekhun, **A.R Abu Talib** and F. Cardenas (**2018**), Towards a Sustainable Aerogel Airship: A Primer, International Journal of Engineering & Technology, 7(4): 141-145 (**Scopus Index**)
- 33. M.N Ishak, **A.R Abu Talib** and M.Y Harmin (2018), Material Selection and Design Analysis of Multi-Purpose Disposable Safety Syringe, International Journal of Engineering & Technology, 7(4): 214-220 (**Scopus Index**)
- 34. A.S.H Al-Ammari, Y.S.M Altarazi, **A.R Abu Talib** and N. Bheekhun (**2018**), CFD Simulation of Local Exhaust Ventilation for Aviation Fire-Test Lab, International Journal of Engineering & Technology, 7(4): 188-194 (**Scopus Index**)
- 35. **A.R Abu Talib**, I Mohammed, K.A Mohammed and N. Bheekhun (2018), Aerogel Application on Fire Certification Techniques and Heat Transfer, International Journal of Pure and Applied Mathematics, 119(16): 1783-1790.
- 36. I Mohammed, **A.R Abu Talib**, Mohamed T.H Sultan and S Saadon (**2018**), Thermal Properties of Fibre Metal Laminates Composites, International Journal of Pure and Applied Mathematics, 119(15): 3761-3769.

- 37. K.A Mohammed, **A.R Abu Talib**, N. Abdul Aziz, K.A Ahmed (**2017**) Review of forced convection nanofluids through corrugated facing step, Renewable & Sustainable Energy Reviews, Vol.75: 234-241 (**Top 1%**, **JCR Q1**, **I.F = 9.184**).
- 38. R.I Ahmed, A.R Abu Talib, A.S Mohd Rafie, H. Djojodihardjo (2017), Aerodynamics and Flight Mechanics of MAV Based on Coandă Effect, Aerospace Science and Technology, 62: 136-147, doi: 10.1016/j.ast.2016.11.023 (Top 10%, JCR Q1, I.F = 2.228).
- 39. Ain U. Md Shah, Mohamed T. H. Sultan, Francisco Cardona, Mohammad Jawaid, A.R Abu Talib, and N. Yidris (2017), Thermal Analysis of Bamboo Fibre and Its Composites, BioResources, 12(2): 2394-2406 (JCR Q2, I.F = 1.202).
- 40. H. Djojodihardjo, R.I Ahmed, A.R Abu Talib, A.S Mohd Rafie (2017), First Principle Analysis of Coandă Micro Air Vehicle Aerodynamic Forces for Preliminary Sizing, Aircraft Engineering and Aerospace Technology, 89(2): 231-245 (JCR Q3, I.F = 0.753), DOI: 10.1108/AEAT-03-2015-0080.
- 41. R.I Ahmed, H. Djojodihardjo, **A.R Abu Talib**, A.S Mohd Rafie (**2017**), Review on Progress and Application of Active Flow Control Devices Coandă Effect on Unmanned Aerial Vehicles, Pertanika Journal of Scholarly Research Reviews, 3(1): 113-137.
- 42. M.N Ishak, **A.R Abu Talib**, M. Y Harmin and R. Zahari (**2017**), Design Improvement of Multi-Purpose Disposable Safety Syringe, FEIIC International Journal of Engineering and Technology, 14(1): 25-34.
- 43. **A.R Abu Talib**, M.J Sulaiman @ Ahmad, R. Ibrahim, M.Y Harmin (**2017**) Hardness and Density Properties Measurements of Sintered Inconel 718 using Palm Oil Based Binder, International Journal for Sustainable Aviation, IJSA-153827, 3(1): 18-28. (**ESCI**).

Year 2016

- 44. Ain U. Md Shah, Mohamed T.H. Sultan, Mohamad Jawaid, Francisco Cardona, and **A.R Abu Talib** (2016), A Review on the Tensile Properties of Bamboo Fiber Reinforced Polymer Composites, BioResources, 11(4): 0654-10676 (JCR Q2, I.F = 1.202).
- 45. H. Alrazen, **A.R Abu Talib**, K.A Ahmad (**2016**), A Two-component CFD Studies of the Effects of H₂, CNG, and Diesel Blend on Combustion Characteristics and Emissions of a Diesel Engine, International Journal of Hydrogen Energy, 41(24): 10483 10495 (JCR Q1, I.F = 3.582).
- 46. H. Alrazen, **A.R Abu Talib**, R. Adnan, and K.A Ahmad (**2016**), A Review of the Effect of Hydrogen Addition on the Performance and Emissions of the Compression Ignition Engine, Renewable and Sustainable Energy Reviews, 54, 785 796. (**Top 10%**, **JCR Q1**, **I.F = 8.050**).

Year 2015

47. F. Cardona, M.T Sultan, **A.R Abu Talib**, F. Ezzah, A. Derahman (**2015**), Interpenetrating Polymer Network (IPN) with Epoxidized and Acrylated Bioresins and their Composites with Glass and Jute Fibres, BioResources, 11(1): 2820-2838 (**JCR Q1, I.F = 1.334**).



- 48. N. Bheekhun, **A.R Abu Talib**, M.R Hassan **(2014)**, Thermal spray coatings for polymer matrix composites in gas turbine engines: A literary preview, International Review of Aerospace Engineering, 7(3): 84-87 **(Scopus Index)**.
- 49. **A.R Abu Talib**, E. Gires, M.T Ahmad (**2014**), Performance Evaluation of a Small-Scale Turbojet Engine Running on Palm Oil BioDiesel Blends, Journal of Fuels, Article ID 946485, doi: 10.1155/2014/946485.

Year 2013

- 50. A.A Ramadhan, A.R. Abu Talib, A.S Mohd Rafie, R. Zahari (2013), High Velocity Impact Response of Kevlar-29/Epoxy and 6061-T6 Aluminum Laminated Panels, Materials and Design, 43(1): 307-321 (JCR Q1, I.F = 3.171)
- 51. **A.R. Abu Talib**, A.A Ramadhan, A.S Mohd Rafie, R. Zahari (2013), Influence of Cut-Out Hole on Multi-Layer Kevlar-29/Epoxy Composite Laminated Plates, Materials and Design, 43(1): 89-98 (JCR Q1, I.F = 3.171)
- 52. N. Bheekhun, **A.R Abu Talib**, M.R Hassan **(2013)**, Aerogel in Aerospace: An Overview, Advances in Material Science and Engineering, Volume 2013, Article ID 406065, doi: 10.1155/2013/406065 (**JCR Q3, I.F = 0.897**).

Year 2012

- 53. **A.R. Abu Talib**, L.H. Abbud, A. Ali, F. Mustapha **(2012)**, Ballistic Impact Performance of Kevlar-29 and Al₂O₃ Powder/Epoxy Targets under High Velocity Impact, Materials and Design, 35(1): 12-19, (**JCR Q1, I.F = 2.913**)
- 54. Ali. A., Abbud, L.H., **Abu Talib, A.R.**, Mustapha, F., (**2012**), Impact resistance of armor composite made of Kevlar-29 and Al₂O₃ powder, Materialpruefung/Materials Testing, 54(3): 169-174 (**JCR Q4, I.F = 0.184**)
- 55. R. Ibrahim, M. Azmirruddin, M. Jabir, N. Johari, M. Muhamad, and **A.R. Abu Talib (2012)**, Injection Molding of Inconel718 Parts for Aerospace Application using Novel Binder System Based on Palm Oil Derivatives, International Journal of Aerospace and Mechanical Engineering, World Academy of Science, Engineering and Technology, 6(10): 2112-2116.
- 56. A.A Ramadhan, **A.R. Abu Talib**, A.S Mohd Rafie, R. Zahari, High Velocity Impact Damage in Kevlar29/Epoxy-AL₂O₃, **(2012)** Journal of Advanced Science and Engineering Research, 2(2): 138-154.
- 57. A.A Ramadhan, A.R. Abu Talib, A.S Mohd Rafie, R. Zahari, Experimental and Numerical Simulation of Energy Absorption on Composite Kevlar29/Polyester Under High Velocity Impact, (2012), Journal of Advanced Science and Engineering Research, 2: 56-67.

Year 2011

- 58. L.H. Abbud, **A.R. Abu Talib**, A. Ali, F. Mustapha (**2011**), Mechanical properties of interlaminer Kevlar-29 and Al₂O₃ powder/epoxy composite plates using an analytical approach, Scientific Research and Essays, 6(21): 4455-4463, (*Scopus Index*).
- 59. A.R Hussein, N.A Abdul Jalil, **A.R Abu Talib**, (2011) Improvement of Mechanical Welding Properties by using Induced Harmonic Vibration, Journal of Applied Sciences, 11(2): 348-353 (*Scopus Index*).
- 60. L.H. Abbud, A.R. Abu Talib, F. Mustapha, A. Ali (2011), Ballistic Limit Behavior of Polymers Transparent Materials Under High Velocity Impact, International Journal of Engineering and Technology, 8(1): 55-60.

Year 2010

- 61. N. Abdullah, **A.R Abu Talib**, A.A Jaafar and M.A Mohd Salleh **(2010)** The Basics and Issues of Thermochromic Liquid Crystal Calibrations, Experimental Thermal and Fluid Science, 34(8): 1089-1121, (**JCR Q1, I.F = 1.267**).
- 62. **A.R Abu Talib**, A. Ali, G. Goudah, N.A Che Lah and A.F. Golestaneh **(2010)** Developing a composite based elliptic springs for automotive applications, Materials and Design, 31(1): 475-484 (**JCR Q2**, **I.F = 1.696**).
- 63. **A.R Abu Talib**, A. Ali, M.A. Badie. N.A Che Lah and A.F. Golestaneh **(2010)** Developing a hybrid, carbon/glass fiber-reinforced, epoxy composite automotive drive shaft. Materials and Design, 31(1): 514-521 (**JCR Q2, I.F = 1.696**).
- 64. L.H. Abbud, **A.R. Abu Talib**, F. Mustapha, H. Tawfique and F.A. Najim **(2010)** Behaviour of Transparent Material under High Velocity Impact, International Journal of Mechanical and Materials Engineering, 5(1): 123-128 (*Scopus Index*).

Year 2009

- 65. N. Abdullah, **A.R Abu Talib**, H.R Mohd. Saiah, A.A Jaafar and M.A Mohd Salleh (**2009**), Film thickness effects on calibrations of a narrowband thermochromic liquid crystal, Experimental Thermal and Fluid Science, 33(4): 561-578 (**JCR Q1**, **I.F = 1.234**).
- 66. Abdullah Nadia, **A.R Abu Talib**, Mohd Saiah, Helmey Ramdhaney, Jaafar, Abdul Aziz, and Mohd Salleh, Mohamad Amran (**2009**) Comparison of Adhesives for Thermocouple Temperature Measurements, Journal of the Institution of Engineers Malaysia, 70(1): 21-35.

- 67. **A.R Abu Talib**, A.A Jafaar, A.S Mokhtar and N.A Abdul Jalil (2007) "Flow Measurements Downstream of an Axial Flow Fan Inside an Outdoor Air Conditioning Unit", International Journal of Engineering and Technology, 4(1): 44-56.
- 68. A.S Mokhtar, H.S Sultan, M.K Abdullah, E. Mahdi, **A.R Abu Talib** and A.M.S Hamouda (**2007**) Numerical Investigations into the Crushing Behaviour of Conical Shell System, International Journal of Engineering and Technology, 4(1): 77-85.



- 69. M.K Abdullah, N.R Mohd Suradi, N. Jamaluddin, A. S Mokhtar, **A.R Abu Talib** and M.F Zainuddin (**2006**) K-CHART: A Tool for Research Planning and Monitoring, Journal of Quality Measurement and Analysis, 2(1): 123-139.
- 70. M. A. Badie, A. Mahdi, A. R. Abu Talib, E. J. Abdullah and R. Yunus (2006) Automotive Composite Driveshafts: Investigation of the Design Variables Effects, International Journal of Engineering and Technology, 3(2): 227-237.
- 71. G. Goudah, E. Mahdi, A.R. Abu Talib, A.S. Mokhtar and R. Yunus (2006) Automobile Compression Composite Elliptic Spring, International Journal of Engineering and Technology, 3(2): 139-147.
- 72. **A.R Abu Talib**, A.A Jaafar, A.S Mokhtar, Mohd Saiah H.R, I. Abd. Rahim and M.S Abdul Karim (**2006**) Effects of Blowing Ratio on the Heat Transfer Coefficient Distribution Downstream of a Single Film Cooling Hole, International Journal of Engineering and Technology, 3(1): 37-46.

Year 2005

- 73. **A.R Abu Talib**, A.J Neely, P.T Ireland and A.J Mullender (2005) Detailed Investigation of Heat Flux Measurements Made in a Standard Propane-Air Fire-Certification Burner Compared to Levels Derived From a Low-Temperature Analogue Burner, Journal of Engineering for Power and Gas Turbine, 127(2): 249-256. (JCR Q3, I.F = 0.282)
- 74. **A.R Abu Talib**, P.T Ireland, A.J. Neely, A.J Mullender and A.S Mokhtar (2005) Low-Temperature Analogue Burner Face Plate Time Response, International Journal of Engineering and Technology, 2(2): 43-50.
- 75. **A.R Abu Talib**, P.T Ireland, A.J. Neely, A.J Mullender and A.A Jaafar (**2005**) Computational Study on Conduction Heat Transfer Through a Thin Film Gauge, International Journal of Engineering and Technology, 2(1): 1-7.

Year 2004

76. **A.R Abu Talib,** A.J Neely, P.T Ireland and A.J Mullender (2004) A Novel Liquid Crystal Image Processing Technique Using Multiple Gas Temperature Steps to Determine Heat Transfer Coefficient Distribution and Adiabatic Wall Temperature, Journal of Turbomachinery, 126(4): 587-596. (JCR Q3, I.F = 0.435)

Conference Papers

- 1. Y.S.M Alterazi, **A.R Abu Talib**, S. Saadon, J. Yu, E. Gires, M.F Abdul Ghafir, and J. Lucas (**2019**), On-Design Operation and Performance Characteristics of Custom Engine, Presented at the 4th International Symposium on Fluid Mechanics and Thermal Sciences, Putrajaya, Malaysia, 15 Dec.
- 2. N. Bheekhun and **A.R Abu Talib** (**2019**), AEROGEL: Energizing Sustainability in Aerospace, Presented at the AEROS Conference and Networking Meeting, Bangi, Selangor, 12 Dec.
- 3. I. Mohammed and A.R Abu Talib (2019), Burn-through Responses of Aero-engine Nacelle using Fibre Metal Composite by ISO2685 Burner, Presented at the AEROS Conference and Networking Meeting, Bangi, Selangor, 12 Dec.
- 4. **A.R Abu Talib**, F. Hasyim, N.K Noordin, M.F A.Rasid, R. Wagiran, M.I Saripan, M.H Marhaban, M.J Megat Mohd Noor, S. Mohammed, S. Abdul Talib, H. Salleh, Z. Mohd Fahmi, and M.S Jaafar (**2019**) Development of Employer Perception Survey for Malaysia Integrated Rating among University and College University, Presented at the FEIIC International Convention on Engineering Education & Research (FICEER), Madinah, Saudi Arabia, 1-5 November.
- 5. **A.R Abu Talib** and E. Gires (**2019**), Recent Development of Electric and Hybrid Propulsion Systems: Issues & Challenges, Presented at the International Symposium on Sustainable Aviation (ISSA), Budapest, Hungary, 26-29 May.
- 6. **A.R Abu Talib** (2019) Human Factors in Aviation Safety, Presented at the 4th International Conference on Ergonomics & 2nd International Conference on Industrial Engineering, 27-28 Aug, Kuala Terengganu, Malaysia.
- 7. Chee Leong Liew, **A.R Abu Talib** and Viji Indiran (**2019**) Professional Pathway for Civil Aviation Authority of Malaysia (CAAM) Aircraft Maintenance License Holder Registered at BEM, Presented at the SouthEast Asia Workshop on Aerospace Engineering (SAWAE), Aug 29-30, Kuala Lumpur Malaysia.
- 8. Yazan S.M. AlTerazi, **A.R Abu Talib**, Ezanee Gires and Mohammad Abdul Ghafir (**2019**) A review of building an engine performance simulation, Presented at the SouthEast Asia Workshop on Aerospace Engineering (SAWAE), Aug 29-30, Kuala Lumpur Malaysia.
- 9. Nadiir Bheekhun and **A.R Abu Talib** (**2019**) Auditing the Aerospace Industry in Southeast Asia: 9100 Series, Presented at the SouthEast Asia Workshop on Aerospace Engineering (SAWAE), Aug 29-30, Kuala Lumpur Malaysia.
- 10. Ibrahim Mohammed and **A.R Abu Talib** (**2019**) Strength Behaviour of Silica Aerogel/Thermoset Polymer with Reinforced Fibre-Metal Laminate Composites, Presented at the SouthEast Asia Workshop on Aerospace Engineering (SAWAE), Aug 29-30, Kuala Lumpur Malaysia.
- 11. S. Salman, A.R Abu Talib, Ali Hilo, Sadeq R. Nfawa, M.T.H. Sultan and S. Saadon (2019) Numerical Study on the Turbulent Mixed Convective Heat Transfer over 2D Microscale Backward-Facing Step, Presented at the SouthEast Asia Workshop on Aerospace Engineering (SAWAE), Aug 29-30, Kuala Lumpur Malaysia.
- 12. Sadeq Rashid, **A.R Abu Talib**, Siti Ujila Masuri, Hasril Hasini and Adi Azriff Basri (**2019**) Heat transfer enhancement in a corrugated-trapezoidal channel using winglet vortex generators, Presented at the SouthEast Asia Workshop on Aerospace Engineering (SAWAE), Aug 29-30, Kuala Lumpur Malaysia.



- 13. **A.R Abu Talib**, M.S Jaafar, N.K Noordin, M.I Saripan, M.J Megat Mohd Noor, M.F A. Rasid, F. Hasyim, M.H Marhaban, S. Abdul Talib, H. Saleh, S. Mohammed, Z. Mohd Fahmi (**2018**), Development of Malaysia Integrated Higher Education Rating For University & University College, International Congress on Education Sciences and Learning Technology, 26-30 Nov 2018, Danubius Hotel Flamenco, Budapest Hungary
- 14. N.H.H Zainol Abidin, S. Saadon and **A.R Abu Talib** (**2018**), Parametric Optimization and Performance Analysis of a Waste Heat Recovery System using Organic Rankine Cycle (ORC), IOP Conference Series: Materials Science and Engineering, 405(1) 012010 (**Scopus Index**), Presented at the AEROTECH-VII: Innovation in Aerospace Engineering & Technology, Aug 7-8, Putrajaya Malaysia.
- 15. M F Mohd Zulkeple, **A.R Abu Talib**, E Gires, and M T Hameed Sultan (**2018**), Microencapsulation and Thickness Effect on the Occurance of Hysteresis of Thermochromic Liquid Crystal Calibration, Presented at the 3rd SouthEast Asia Workshop on Aerospace Engineering, Sept 6-8, Bangkok Thailand.
- 16. M.F Abdul Hamid, A.S Mohd Rafie, E. Gires and **A.R Abu Talib** (2018), Lift Force for Cylindrical and Elliptical Coandă Aircraft Design, Presented at the AEROTECH-VII: Innovation in Aerospace Engineering & Technology, Aug 7-8, Putrajaya Malaysia.
- 17. A. Hilo, **A.R Abu Talib**, S.R. Nfawa, M.T Hameed Sultan and M.F Abdul Hamid (**2018**), Review of Improvements on Heat Transfer using Nanofluids via Corrugated Facing Step, Presented at the AEROTECH-VII: Innovation in Aerospace Engineering & Technology, Aug 7-8, Putrajaya Malaysia.
- 18. M F Mohd Zulkeple, **A.R Abu Talib**, E Gires, M T Hameed Sultan and M S Ramli (**2018**), Heat Transfer Performance of Multiple Holes Impingement Cooling Technique, Presented at the AEROTECH-VII: Innovation in Aerospace Engineering & Technology, Aug 7-8, Putrajaya Malaysia.
- 19. I Mohammed, **A.R Abu Talib**, Mohamed T.H Sultan and S Saadon (**2018**), Fire behavioural and mechanical properties of carbon fibre reinforced aluminium laminate composites for aero-engine, Presented at the AEROTECH-VII: Innovation in Aerospace Engineering & Technology, Aug 7-8, Putrajaya Malaysia.
- 20. N. Bheekhun, **A.R Abu Talib** and F. Cardenas (**2018**), Towards a Sustainable Aerogel Airship: A Primer, Presented at the AEROTECH-VII: Innovation in Aerospace Engineering & Technology, Aug 7-8, Putrajaya Malaysia.
- 21. M.N Ishak, **A.R Abu Talib** and M.Y Harmin (**2018**), Material Selection and Design Analysis of Multi-Purpose Disposable Safety Syringe, Presented at the AEROTECH-VII: Innovation in Aerospace Engineering & Technology, Aug 7-8, Putrajaya Malaysia.
- 22. A.S.H Al-Ammari, Y.S.M Altarazi, **A.R Abu Talib** and N. Bheekhun (**2018**), CFD Simulation of Local Exhaust Ventilation for Aviation Fire-Test Lab, Presented at the AEROTECH-VII: Innovation in Aerospace Engineering & Technology, Aug 7-8, Putrajaya Malaysia.
- 23. I. Mohammed and **A.R Abu Talib** (**2018**), Mechanical Properties of Different Layering Pattern of Carbon Fibre Reinforced Aluminium Laminates for Aero Engine Application, Presented at the Symposium and Workshop on Materials and Characterizations, July 24-25, Serdang Malaysia.
- 24. N. Bheekhun and **A.R Abu Talib** (2018), Physical Properties of Powdered Silica Aerogels: A Comparative Study, Presented at the Symposium and Workshop on Materials and Characterizations, July 24-25, Serdang Malaysia.
- 25. **A.R Abu Talib**, I. Mohammed, W. Rujhan and N Bheekhun (**2018**), Effect of Different Weightage of Enova® IC3100 Silica Aerogel on Aluminium Alloy Composites in ISO2685 Aviation Standard Fire-Test, International Symposium on Sustainable Aviation, July 9-11, Rome, Italy.
- 26. **A.R Abu Talib**, I Mohammed, K A Mohammed and N Bheekhun (**2018**) Aerogel Application On Fire Certification Techniques and Heat Transfer, International Conference on Aeronautics, Astronautics and Aviation, Chennai, India.
- 27. I Mohammed, A.R Abu Talib, S Saadon and M T Hameed Sultan (2018), Thermal Properties of Fibre Metal Laminate Composites, International Conference on Aeronautics, Astronautics and Aviation, Chennai, India. (*Best Paper Award*)

Year 2017

- 28. **A.R Abu Talib** and N Bheekhun (**2017**) Towards Sustainable Engineering Education: A Preview, FEIIC International Convention on Engineering Education & Research (FICEER), Madinah, Saudi Arabia.
- 29. M.F Abdul Hamid, E. Gires, A.S.M Harithuddin, A.R Abu Talib, A.S.M Mohd Rafie, F.I Romli, and M.Y Harmin (2017) Coanda Configured Aircraft: A Preliminary Analytical Assessment, FEIIC International Convention on Engineering Education & Research (FICEER), Madinah, Saudi Arabia.
- 30. I Mohammed, A.R Abu Talib, MTH Sultan and S Saadon (2017), Ballistic Impact Velocity Response of Carbon Fibre Reinforced Aluminium Alloy Laminates for Aero-engine, IOP Conference Series: Materials Science and Engineering, 270(1) 012026, (*Scopus Index*). Presented at AEROS Conference, Shangri-La, Putrajaya.
- 31. M.F Abdul Hamid, **A.R Abu Talib**, A.S Mohd Harithuddin, E Gires, F.I Romli, M.Y Harmin (**2017**) Coandă configured aircraft: A preliminary analytical assessment, IOP Conference Series: Materials Science and Engineering, 270(1) 012004, 012004 (*Scopus Index*). Presented at AEROS Conference, Shangri-La, Putrajaya.

Year 2016

32. N. Bheekhun, **A.R Abu Talib**, S. Mustapha, R. Ibrahim and M.R Hassan (**2016**), Towards an Aerogel-based Coating for Aerospace Applications: Reconstituting Aerogel Particles via Spray Drying, IOP Conference Series: Materials Science and Engineering, 152(1) 012066, (*Scopus Index*). Presented at the AEROTECH-VI: Innovation in Aerospace Engineering &



- Technology, Nov 8-9, Kuala Lumpur Malaysia (Best Aerospace Application Paper Award),
- 33. C.L Leong, **A.R Abu Talib** and R.L Jacobs (**2016**), Malaysian Aviation Technologist Promotion to Managerial Role: an Empirical Overview, IOP Conference Series: Materials Science and Engineering, 152(1) 012039, (*Scopus Index*). Presented at the AEROTECH-VI: Innovation in Aerospace Engineering & Technology, Nov 8-9, Kuala Lumpur Malaysia.
- 34. K.A Mohammed, **A.R Abu Talib**, N. Abdul Aziz, and K.A Ahmed (**2016**), Three Dimensional Numerical Investigations on the Heat Transfer Enhancement in a Triangular Facing Step Channels using Nanofluid, IOP Conference Series: Materials Science and Engineering, 152(1) 012057, (*Scopus Index*). Presented at the AEROTECH-VI: Innovation in Aerospace Engineering & Technology, Nov 8-9, Kuala Lumpur Malaysia (*Best Aeronautics Paper Award*),
- 35. I. Mohammed, **A.R Abu Talib**, M.T.H Sultan and S. Saadon (**2016**), Temperature and Heat Flux Measurement Techniques for Aero-engine Fire Test: A Review, IOP Conference Series: Materials Science and Engineering, 152(1) 012036, (*Scopus Index*). Presented at the AEROTECH-VI: Innovation in Aerospace Engineering & Technology, Nov 8-9, Kuala Lumpur Malaysia.
- 36. M.S Ramli, **A.R Abu Talib**, M.Y Harmin and H.R Mohd. Saiah (**2016**) Effect of Multiple Jet Impingement Plate Configurations on Reynolds Number in a Pipe, IOP Conference Series: Materials Science and Engineering, 152(1) 012012, (*Scopus Index*). Presented at the AEROTECH-VI: Innovation in Aerospace Engineering & Technology, Nov 8-9, Kuala Lumpur Malaysia.
- 37. S. Saadon and **A.R Abu Talib** (2016), An Analytical Study on the Performance of the Organic Rankine Cycle for Turbofan Engine Exhaust Heat Recovery, IOP Conference Series: Materials Science and Engineering, 152(1) 012011, (*Scopus Index*). Presented at the AEROTECH-VI: Innovation in Aerospace Engineering & Technology, Nov 8-9, Kuala Lumpur Malaysia.
- 38. **A.R Abu Talib**, and N. Bheekun (**2016**), Feasibility Study of a Novel Aerogel-Based Thermally Sprayed Coating, World Research and Innovation Convention on Engineering and Technology (WRICET), pp. 63-67, Oct 24-25, Langkawi, Malaysia.
- 39. M.N Ishak, **A.R Abu Talib**, M. Y Harmin and R. Zahari (**2016**), Design Improvement of Multi-Purpose Disposable Safety Syringe, World Research and Innovation Convention on Engineering and Technology (WRICET), pp. 86-95, Oct 24-25, Langkawi, Malavsia.
- 40. **A.R Abu Talib**, M.J Suleiman @ Ahmad, R. Ibrahim and M.Y Harmin (**2016**), The Influence of Palm Stearin on the Powder Injection Molding of Inconel 718 for Aerospace Application, International Symposium on Sustainable Aviation, May 31- June 3, Istanbul, Turkey.
- 41. M.J Suleiman @ Ahmad, N. Johari, M.A Ahmad, R. Ibrahim, **A.R Abu Talib** and M.Y Harmin (**2016**), Solvent Debinding of Inconel 718 Fabricated via Metal Injection Molding, Advanced Materials Research, 1133, 275–279. Presented at the 2nd Advanced Materials Conference, December 25-26, 2014 Bayview Hotel, Langkawi, Malaysia.

42. Harijono Djojodihardjo, Riyadh I. Ahmed, **A.R. Abu Talib**, A.S. Mohd-Rafie (**2015**), Analytical and CFD Visualization Studies of Coandă MAV, 13th Asian Symposium on Visualization, Novosibirsk, Russia.

- 43. N. Johari, A.R Abu Talib, D.L Abang Abdul Majid, R. Ibrahim, M.A Ahmad, and M.J Suleiman (2014), The Influence of Binder System on Physical and Mechanical properties of Inconel 718 Sintered Parts using Metal Injection Molding (MIM) Technique, Advanced Materials Conference, December 25-26, Bayview Hotel, Langkawi, Malaysia.
- 44. **A.R Abu Talib**, S.K Abu Samah, K. Zainal (**2014**), Human Capital Development in Malaysian Aerospace Manufacturing Sub-Sector: A New Sustainable and Holistic Approach, 1st MARA International Aerospace Symposium, March 18-19, Royal Chulan Hotel, Kuala Lumpur.
- 45. R.I Ahmed, H Djojodihardjo, **A.R Abu Talib**, M.F Abdul Hamid (**2014**), Application of Coandă Jet for Generating Lift of Micro Air Vehicles-Preliminary Design Considerations, Applied Mechanics and Materials 629: 139-144 (*Scopus Indexed*). Presented at the National Symposium: Aerospace Technologies of the XXI Century (AEROTECH), Kuala Lumpur, Malaysia.
- 46. N. Johari, R. Ibrahim, M. A. Ahmad, M.J. Ahmad, A.R. Abu Talib (2014), The Effect of Sintering Temperature on Sintered Inconel 718 on Physical and Mechanical Properties for Potential Aerospace Industry Application, Advanced Materials Research, 879: 139-143. (*Scopus Indexed*), Presented at the Advanced Materials Conference, December 12-13, 2012 Bayview Hotel Langkawi,
- 47. R. Ibrahim, M. Azmirruddin, M. Jabir, N. Johari, M. Muhamad and A.R. Abu Talib (2014), Effect of Solid Loading on the Physical Properties of The Sintered Inconel718 using Metal Injection Molding (MIM), Advanced Materials Research, 879: 164-168. (*Scopus Indexed*), Presented at the Advanced Materials Conference, December 12-13, 2012 Bayview Hotel Langkawi,
- 48. M. Azmiruddin, N. Johari, M. Jabir, R. Ibrahim, **A.R Abu Talib (2014)**, Analysis of the Rheological Behaviour and Stability of Inconel 718 Powder Injection Molding (PIM) Feedstock, Advanced Materials Research, 879: 63-72. (*Scopus Indexed*) Presented at the Advanced Materials Conference, December 12-13, 2012 Bayview Hotel Langkawi.
- 49. N. Abdullah, **A.R Abu Talib**, R. Varatharajoo, M.I Saripan (**2014**), Design and Development of a Test Surface for Thermochromic Liquid Crystal Calibrations, 1st KAA Post Graduate Seminar, Faculty of Engineering, UPM, Malaysia.
- 50. N. Bheekhun, **A.R Abu Talib**, H. Hasini, M.R Hassan (**2014**), Flame Temperature Distribution from ISO2685 Standard Propane-Air Burner using CFD, Applied Mechanics and Materials, 564: 240-244 (*Scopus Indexed*). Presented at the International Conference on Advances in Mechanical and Manufacturing Engineering (ICAM2E), November 26-28, 2013 Hotel Istana, Kuala Lumpur.



51. **A.R Abu Talib**, Jasmin Baba, E.S Mohd Tahir, M.K Abdullah (**2013**), Integrated Module Based Education Model for Engineering and Technology, International Engineering Education Conference (IEEC), Madinah, Saudi Arabia.

Year 2012

- 52. R. Ibrahim, M. Azmirruddin, M. Jabir, N. Johari, M. Muhamad, **A.R Abu Talib** (2012), Injection Molding of Inconel718 Parts for Aerospace Application using Novel Binder System Based on Palm Oil Derivatives, International Conference on Aerospace, Mechanical, Automotive and Materials Engineering, Zurich, Switzerland, July 5-6, 2012.
- 53. **A.R Abu Talib**, E. Gires, M.T Ahmed, A. Idris (**2012**), Experimental Performance and Simulation of a Turbojet Engine using Palm Oil Biodiesel and its Blend, 28th Congress of the International Council of the Aeronautical Sciences (ICAS), Brisbane, Australia
- 54. A.A. Ramadhan, **A.R. Abu Talib**, A. S. Mohd Rafie, R. Zahari (**2012**) The Behaviour of Fibre-metal Laminates under High Velocity Impact Loading with Different Stacking Sequence of Al Alloy, Applied Mechanics and Materials, 225: 213-218 (*Scopus Indexed*). Presented at the National Symposium: Aerospace Technologies of the XXI Century (AEROTECH), Kuala Lumpur, Malaysia,
- 55. A.A. Ramadhan, **A.R. Abu Talib**, A. S. Mohd Rafie, R. Zahari (**2012**) The Influence of impact on Composite Armour System Kevlar-29/polyester-Al₂O₃. IOP Conference Series: Materials Science and Engineering, 36:1 012028. (*Scopus Indexed*). Presented at the 2nd International Malaysia-Ireland Joint Symposium on Engineering, Science and Business (IMiEJS), Kuala Lumpur, Malaysia.

Year 2011

- 56. **A.R Abu Talib**, M.S Jaafar, M.J Megat Mohd Noor, R. Wagiran, N.K Noordin, A. Abdul Aziz, M.R Osman, M.F. A. Rasid, M.I Saripan (**2011**), Outcome Based Education Management System, International Engineering Education Conference (IEEC), Madinah, Saudi Arabia.
- 57. F. Jamaludin, A.R Abu Talib, E. Gires (2011), Design and Development of Test Rig for Micro Gas Turbine Engine Performance, Regional Symposium on Engineering and Technology (RSET), Kuching, Sarawak.
- 58. A.A. Ramadhan, **A.R. Abu Talib**, A. S. Mohd Rafie, R. Zahari (**2011**) The Influence of impact on Composite Armour System Kevlar-29/polyester-Al₂O₃. 1st International Conference on Mechanical Engineering Research, Kuantan, Malaysia.

Year 2010

- 59. H. Jabar Hayawi, **A.R Abu Talib**, A.A Jaafar (**2010**), Investigation of Heat Transfer Downstream of an Abrupt Expansion Pipe, Regional Conference on Mechanical and Aerospace Technology, Shah Alam, UITM.
- 60. A.A. Ramadhan, **A.R. Abu Talib**, A. S. Mohd Rafie, R. Zahari (**2010**), Analytical Study of Energy Absorption on Composite Kevlar-129/polyester under High Velocity Impact, Proceedings Conference on Aerospace and Mechanical Engineering, 4th World Engineering Congress, Kuching, Sarawak.
- 61. A.R Hussein, N.A Abdul Jalil and **A.R Abu Talib** (2010), Effect of an Induced Heat and Vibration Frequency on the Deflection of a Simply Supported Rectangular, Proceedings 3rd Regional Conference on Noise, Vibration and Comfort, Putrajaya.
- 62. L.H. Abbud, **A.R. Abu Talib**, F. Mustapha, and A. Ali (**2010**), Ballistic Limit Behavior of Polymers Transparent Materials Under High Velocity Impact, Proceedings Conference on Aerospace and Mechanical Engineering, 4th World Engineering Congress, Kuching, Sarawak.

Year 2009

- 63. E. Gires, **A.R. Abu Talib**, M.T Ahmad, A. Idris, (**2009**), Review of Biodiesel as an Alternative Fuel for Aviation Purposes, National Symposium: Aerospace Technologies of the XXI Century (AEROTECH), Kuala Lumpur.
- 64. M.T. Ahmad, M.R. Ajir, R. Varatharajoo, F. Mustapha, R. Zahari, A. R. Abu Talib, M.F Abdul Hamid, (2009), A Review on Bird Strike Capability on Service-Age Aircraft Canopy, Proceedings, National Symposium: Aerospace Technologies of the XXI Century (AEROTECH), Kuala Lumpur.
- 65. L.H Abbud Al-Shably, **A.R. Abu Talib**, F. Mustapha, H. Tawfique and F.A. Najim, (2009), Experimental Investigation for the Behavior of Multi–Layered Target under Projectile Impact, Proceedings, National Physics Conference (PERFIK), Malacca.
- 66. A.A Hussein, **A.R Abu Talib** and N.M Adam, **(2009)**, Numerical Simulation of Plain-Fin and Circular Tube Heat Exchanger under Frost Condition, Proceedings, The 10th Asian International Conference on Fluid Machinery (AICFM), Kuala Lumpur.
- 67. A.A Hussein, **A.R Abu Talib** and N.M Adam, (2009), Numerical Study of the Pressure Drop in a Plain-Fin and Circular Tube Heat Exchanger under Frost Condition, Proceedings, International Advanced Technology Congress (ATCi), PWTC, Kuala Lumpur.
- 68. S.W Zhang, **A.R Abu Talib**, A.S Mokhtar and S.M Mustapa Kamal (2009) Design Improvement in Vacuum Cooling System, Proceedings, FEIIC International Engineering Convention (InTEC), Damascus, Syria.

<u>Year 2008</u>

69. H.R Mohd Saiah, **A.R Abu Talib**, N. Abdullah, N.A Abdul Jalil and A.S Mokhtar (2008), Experimental Investigation of Fast Response Heater for Transient Heat Transfer Application, Proceedings, International Conference on Mechanical & Manufacturing Engineering (ICME), Johor Bahru, Malaysia.



- 70. N. Abdullah, **A.R Abu Talib**, H.R Mohd Saiah, A.A Jaafar, M.A Mohd Salleh, **(2008)** Estimation of Film Thickness of Thermochromic Liquid Crystals in Temperature Measurement Applications, Proceedings, International Conference on Mechanical & Manufacturing Engineering (ICME), Johor Bahru, Malaysia.
- 71. A.Z Bakar, A.Z. Mokhtar, **A.R Abu Talib** and M.T Ahmad (**2008**) Scaled of Skyhawk A-4 and Control Analysis in an Open Loop systems, Proceedings, National Seminar on Engineering and Technopreneurship (NSET), Kuala Lumpur, Malaysia.
- 72. **A.R Abu Talib**, K.S Ajeet Singh, H.R Mohd Saiah and N. Abdullah (2008) Numerical Modelling on the Effects of Blowing Ratio on Turbine Film Cooling Performance, Proceedings, Symposium of Engineering and Technology (SET), Kuching, Malaysia.
- 73. M.F Abdul Hamid, **A.R Abu Talib** and A.S. Mohd Rafie, (2008) Preliminary Velocity Measurement from a Gun Tunnel using a High Speed Camera, Proceedings, Symposium of Engineering and Technology (SET), Kuching, Malaysia.

- 74. N. Abdullah, **A.R. Abu Talib**, A.A. Jaafar, H.R. Mohd Saiah and M.A. Mohd Salleh (**2007**) Development of a Graphical User Interface (GUI) For Processing Images in Thermochromic Liquid Crystal Calibration, Proceedings, National Symposium: Aerospace Technologies of the XXI Century (AEROTECH), Putrajaya, Malaysia, pp. 121-127 (*Best Paper Award*)
- 75. A.A. Jaafar, **A.R. Abu Talib**, Mokhtar A.S. and Sapuan S.M. (2007) Numerical Predictions of Flow Fields in a Model of Air Conditioning Aircraft Cabin, Proceedings, National Symposium: Aerospace Technologies of the XXI Century (AEROTECH), Putrajaya, Malaysia, pp. 158-164.
- 76. A.S Mokhtar, H.S Sultan, **A.R Abu Talib**, N.M.A Nik Long and N. Jamaluddin (**2007**) Study on Optimization of Composite Conical Structures for Crashworthiness Application, Proceedings, National Symposium: Aerospace Technologies of the XXI Century (AEROTECH), Putrajaya, Malaysia, pp. 65-70.
- 77. **A.R Abu Talib**, A.A Jaafar, N.A Abdul Jalil and A.S Mokhtar (2007) Flow Measurements Downstream of an Axial Flow Fan Inside an Outdoor Air Conditioning Unit, Proceedings, FEIIC International Engineering Convention, Jeddah, Saudi Arabia, Intec07-076, pp. 638-650.
- 78. B. Mohd Nasir, **A.R Abu Talib**, A.S Mokhtar and M.F Zainuddin (**2007**) The Role of Engineers in Dakwah: A Malaysian Experience, Proceedings, FEIIC International Engineering Convention, Jeddah, Saudi Arabia, Intec07-089, pp. 689-694.
- 79. A.S. Mokhtar, Hakim S. Sultan, M.K. Abdullah, E. Mahdi, **A.R Abu Talib** and A. M. S. Hamouda (**2007**) Numerical Investigations Into The Crushing Behaviour of Conical Shell System, FEIIC International Engineering Convention, Jeddah, Saudi Arabia, Intec07-088, pp. 695-704.
- 80. **A.R Abu Talib**, A.A Jaafar, A.S Mokhtar and A.H Razali (2007) Significance of Solar Radiation on Aircraft Engine under Cowl Temperature, Proceedings, ASME Turbo Expo, Montreal, Canada, GT2007-28048. (*Scopus Index*)
- 81. **A.R Abu Talib**, M.R Osman, A.G.L Abdullah, S. Abdul Rashid, N.K Noordin, N. Megat Johari, M.J Megat Mohd Noor and A.A Abang Ali (2007) A Review of France Professional Development for Engineers, Engineering Technologists and Technicians, Proceedings, World Engineering Congress Mechanical and Aerospace Engineering Conference, Penang, Malaysia, pp. 274-279.
- 82. A.R Abu Talib, M.R Osman, A.G.L Abdullah, S. Abdul Rashid, N.K Noordin, N. Megat Johari, M.J Megat Mohd Noor and A.A Abang Ali (2007) The Professional Development of Engineering Team in Germany, Proceedings, World Engineering Congress Mechanical and Aerospace Engineering Conference, Penang, Malaysia, pp. 280-288.
- 83. M.A Azlan, M.F Mohideen Batcha and **A.R Abu Talib** (2007) Design of a CVT Lubricant Test Device Apparatus, Proceedings, Conference on Applications and Design in Mechanical Engineering, Kangar, Perlis, Malaysia.

Year 2006

- 84. G. Goudah, E. Mahdi, **A.R. Abu Talib**, A.S. Mokhtar and R. Yunus (**2006**) Automobile Compression Composite Elliptic Spring, Proceedings, FEIIC Seminar on Engineering and Technology, Palm Garden Hotel, Putrajaya, Malaysia, pp. 242-248.
- 85. M.A. Badie, E. Mahdi, **A.R. Abu Talib**, E.J. Abdullah and R. Yunus (**2006**) Design and Analysis of a Hybrid Composite Drive Shaft for Automotive Applications, Proceedings, FEIIC Seminar on Engineering and Technology, Palm Garden Hotel, Putrajaya, Malaysia, pp. 511-517.
- 86. A.A. Jaafar, A.R. Abu Talib, I. Abdul Rahim, M.N. Fillipski and S.M. Sapuan (2006) Development of a Testing Facility for Modelling Cooling Technique, Proceedings, FEIIC Seminar on Engineering and Technology, Palm Garden Hotel, Putrajaya, Malaysia, pp. 108-116.
- 87. **A.R Abu Talib**, A.A Jaafar, A.S Mokhtar, I. Abd. Rahim and M.S Abdul Karim (2006) Effects of Blowing Ratio on the Heat Transfer Coefficient Distribution Downstream of a Single Film Cooling Hole, Proceedings, FEIIC Seminar on Engineering and Technology, Palm Garden Hotel, Putrajaya, Malaysia, pp. 425-434.
- 88. M.K Abdullah, **A.R Abu Talib**, N.R Mohd Suradi, A.S Mokhtar, N. Jamaluddin and M.F Zainuddin (**2006**) K-Chart: Research Planning and Monitoring Tool for Engineering and Technology Applications, Proceedings, FEIIC Seminar on Engineering and Technology, Palm Garden Hotel, Putrajaya, Malaysia, pp. 180-185.

- 89. **A.R Abu Talib**, P.T Ireland, A.J Neely and A.J Mullender (2005) Numerical Simulation of a Standard Fire-Test on a Flat Plate, Proceedings, National Symposium: Aerospace Technologies of the XXI Century (AEROTECH), Putrajaya, Malaysia, pp. 79-88.
- 90. A.S Mokhtar, E. Mahdi, M.R Ajir and A.R Abu Talib (2005) Crushing and Energy Abrosption Behaviour of Axially Loaded Natural Composite Tubes, Proceedings, National Symposium: Aerospace Technologies of the XXI Century (AEROTECH),



- Putrajaya, Malaysia, pp. 61-66.
- 91. A.A Jaafar, A.R Abu Talib, X. Gan, M. Wilson and J.M Owen (2005) Flow in a Rotating Cavity with Peripheral Flows, Proceedings, National Symposium: Aerospace Technologies of the XXI Century (AEROTECH), Putrajaya, Malaysia, pp. 115-119.
- 92. A.A Jaafar, **A.R Abu Talib**, A.S Mokhtar, I Abd.Rahim, P.R Arora and M.M.H Megat Ahmad (**2005**) Combined Experimental and Numerical Investigation on a Film Cooling Flow over a Flat Surface, Proceedings, National Conference on Advances in Mechanical Engineering, Kuala Lumpur, Malaysia.

- 93. **A.R Abu Talib**, A.J Neely, P.T Ireland and A.J Mullender (2003) Detailed Investigation of Heat Flux Measurements Made in a Standard Propane-Air Fire-Certification Burner Compared to Levels Derived From a Low-Temperature Analogue Burner, Proceedings, ASME Turbo Expo, Atlanta, USA, GT2003-30196. (*Scopus Index*)
- 94. **A.R Abu Talib**, A.J Neely, P.T Ireland and A.J Mullender (2003) A Novel Liquid Crystal Image Processing Technique Using Multiple Gas Temperature Steps To Determine Heat Transfer Coefficient Distribution And Adiabatic Wall Temperature, Proceedings, ASME Turbo Expo, Atlanta, USA, GT2003-38198. (*Scopus Index*)

Year 2001

95. **A.R Abu Talib**, A.J Neely, P.T Ireland and A.J Mullender (**2001**) Compact Low-Temperature Analogue of Aero Engine Fire-Certification Burner, Proceedings, ASME Turbo Expo, New Orleans, USA, 2001-GT-0364 (*Scopus Index*)

Year 2000

96. A.J Neely, **A.R Abu Talib**, P.T Ireland and A.J Mullender (**2000**) Development of Low-Temperature Fire-Event Modeling Technique, Proceedings, International Congress of Aeronautical Science, Harrogate, UK.

Books

- 1. **A.R Abu Talib**, F. Hashim, M.F A. Rasid, R. Wagiran, N.K Noordin, M.H Marhaban, M.S Jaafar, S. Mohammad, M.J Megat Mohd Noor, H. Salleh, S. Abdul Talib, and Z. Mohd Fahmi, *Employer Perception Survey for Malaysia Integrated Rating among Universities and College Universities*, Fakulti Kejuruteraan UPM, ISBN: 978-983-2408-71-0, **2020**.
- 2. R. Wagiran, N.K Noordin, A.R Abu Talib, F. Hashim, H. Salleh, M.J. Megat Mohd Noor, and M.F A. Rasid, *MyQUEST 2018: Instrument Development*, Fakulti Kejuruteraan UPM, ISBN: 978-983-2408-69-7, **2019**.
- 3. M.S Jaafar, H. Salleh, M.I Saripan, M.J Megat Mohd Noor, M.H Marhaban, N.K Noordin, S. Mohammad, S Abdul Talib, Z Mohd Fahmi, **A.R Abu Talib**, M.F A. Rasid, and F. Hashim, *Malaysia Integrated Rating for University and University College Excellence SETARA 2017*, Ministry of Higher Education Malaysia, ISBN: 978-967-4585-8-7, **2018**.
- 4. N.K Noordin, R. Wagiran, M.F A. Rasid, **A.R Abu Talib**, F. Hashim, and M.I Saripan, *Malaysian Quality Evaluation System for Private Colleges: MyQUEST 2016/2017*, Kementerian Pengajian Tinggi, ISBN: 978-983-2408-58-1, **2017**.
- M.A Abdul Rahman, M.S Jaafar, A.R Abu Talib, F Sufar, F. Hashim, K.N Mustapha, M.I Saripan, M.J Megat Mohd Noor, M.F A. Rasid, N.A Shairi, N.K Noordin, R. Wagiran, R. Razali, S. Mohamad, S. Abdul Talib, and Y. V. Muniandy, MyQUEST USER MANUAL (Version 01:2017), Kementerian Pengajian Tinggi, ISBN: 978-983-2408-50-5, 2017.
- 6. M.R Baharudin, A. Arshad, M.K Tahir, N.K Noordin and **A.R Abu Talib**, *Garis Panduan Pengurusan Risiko UPM*, ISBN 978-967-3446-92-6. Penerbit UPM, **2017**.
- 7. M.A Abdul Rahman, M.S Jaafar, **A.R Abu Talib**, F. Hashim, K.N Mustapha, M.I Saripan, M.J Megat Mohd Noor, M.F A. Rasid, N. Yaakob, N.H Mat Salleh, N.A Shairi, N.K Noordin, R. Wagiran, R. Razali, S. Mohamad, S. Abdul Talib, and Y. V. Muniandy, *Malaysian Quality Evaluation System for Private Colleges* MyQUEST 2014/2015, Kementerian Pengajian Tinggi, ISBN: 987-983-2408-34-5, **2015**.
- 8. K. Zainal, A.R Abu Talib, and I. Hack, *Malaysian Aerospace Industry Blueprint 2030*, Malaysian Industry-Government Group for High Technology (MIGHT), ISBN: 978-967-11818-6-7, 2015. (POLICY PAPER)
- 9. **A.R Abu Talib** and N. Nordin, *New Paradigm for Sustainable Human Capital Development*, MIGHT-METEOR Advanced Manufacturing, ISBN: 978-967-12475-0-1, **2014**.
- 10. A.R Abu Talib and N. Abdullah, Innovation Methodology, Penerbit UPM, ISBN: 978-967-3443-50-5, 2013.
- 11. S.H Tapsir, M.A Abdul Rahman, M.S Jaafar, S. Mohamad, K.N Mustapha, S. Abdul Talib, N.K Noordin, M.J Megat Mohd Noor, A.R Abu Talib, R. Wagiran, M.I Saripan, *Malaysian Quality Evaluation System for Private Colleges* MyQUEST 2010/2011, Kementerian Pengajian Tinggi, ISBN: 978-967-0334-05-9, **2011**.
- 12. **A.R Abu Talib** *et al., Hala Tuju Program Aeroangkasa,* Institusi Pengajian Tinggi Awam 2010-2020, Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi Malaysia, Putrajaya, ISBN 978-983-3663-43-9. Penerbit UPM, **2010**. (**POLICY PAPER**)

Proceedings

- 1. R. Wagiran, A.G.L Abdullah, N.K Noordin, S Abdul Rashid, M.I Saripan, **A.R Abu Talib**, T.A Mohammed and M.J Megat Mohd Noor, Proceedings, *International Engineering Convention*, Damascus, Syria, ISBN 978-983-43571-5-3. FEIIC, **2009**.
- 2. R. Wagiran, A.G.L Abdullah, S. Abdul Rashid, A.R Abu Talib, N.K Noordin and M.J Megat Mohd Noor, Proceedings, FEIIC



- Seminar on Engineering and Technology, Kuching, Malaysia. ISBN 983-41705-3-X. FEIIC, 2008.
- 3. S. Abdul Rashid, A.G.L Abdullah, **A.R Abu Talib**, R. Wagiran, A. Abdul Aziz, N.K Nordin, M.R Osman and M.J Megat Mohd Noor, Proceedings, *International Engineering Convention*, Jeddah, Saudi Arabia, ISBN 978-983-41705-4-7, FEIIC, **2007**.
- 4. A.S Mokhtar, E.J Abdullah, N.M Adam, **A.R Abu Talib**, N.A Abdul Jalil, R. Zahari, W.M.I Hassan and Z.A Zulkefli, Proceedings, World Engineering Congress, *Mechanical and Aerospace Engineering Conference*, Penang, Malaysia, ISBN 978-983-43571-1-5, FEIIC, **2007**.
- 5. **A.R Abu Talib**, A.G.L Abdullah, R. Wagiran, S. Abdul Rashid, M.R Osman and M.J Megat Mohd Noor, Proceedings, *FEIIC Seminar on Engineering and Technology*, Putrajaya, Malaysia. ISBN 983-41705-3-X. FEIIC, **2006**.

Chapter in Books

- A.R Abu Talib and N. Bheekhun, Aerogel-Based Thermally Sprayed Coatings for Aero-Propulsion Systems: A Feasibility Study Based on Structural Health Monitoring Approach, Edited by Mohammad Jawaid et al.: Structural health monitoring of Biocomposites, Fibre reinforced composites and Hybrid composites, Woodhead Publishing, ELSEVIER, p.191-225, 2019. https://doi.org/10.1016/B978-0-08-102291-7.00010-1
- 2. **A.R Abu Talib** and I. Mohammed, Synthetic / Natural fibre properties of fire designated zone of an aircraft engine A Structural Health Monitoring Approach, Edited by Mohammad Jawaid *et al.*: Structural health monitoring of Biocomposites, Fibre reinforced composites and Hybrid composites, Woodhead Publishing, ELSEVIER, p.153-190, **2019**. https://doi.org/10.1016/B978-0-08-102291-7.00009-5
- 3. I. Mohammed and **A.R Abu Talib** (2018), Mechanical Properties of Different Layering Pattern of Carbon Fibre Reinforced Aluminium Laminates for Aero Engine Application, Edited by M.A Azmah Hanim, C.N Aiza Jaafar and K. Vidyatharran: Basic Methodology Sample Preparation and Characterization, Universiti Putra Malaysia, pp. 58-62, **2018** (ISBN: 978-983-2408-64-2).
- 4. N. Bheekhun and **A.R Abu Talib** (2018), Physical Properties of Powdered Silica Aerogels: A Comparative Study, Edited by M.A Azmah Hanim, C.N Aiza Jaafar and K. Vidyatharran: Basic Methodology Sample Preparation and Characterization, Universiti Putra Malaysia, pp. 73-77, 2018 (ISBN: 978-983-2408-64-2).

Articles in Professional Magazine

- 1. **A.R Abu Talib**, N. Bheekhun and L.C Leong, Growing Demand on Air Transportation: Global and Local Scenario, *The Ingeniuer*, Board of Engineers Malaysia, Vol. 74, pp. 9-18, Apr Jun, **2018**.
- 2. N. Bheekhun and **A.R Abu Talib**, Gaps in Engineering Education, *Engineering and Technology*, A Publication of the Malaysian Society for Engineering and Technology, MySET, Issue 44: 16 19, Jan-Feb, **2018**.
- 3. N. Bheekhun and **A.R Abu Talib**, Aeronautics in Qur'an, *Engineering and Technology*, A Publication of the Malaysian Society for Engineering and Technology, MySET, Issue 41: 15 16, July-August, **2017**.
- 4. **A.R Abu Talib**, Paths to Commercialization: From Idea to Market, The Ingeniuer, Board of Engineers Malaysia, Vol. 68, Oct Dec, **2016**.
- 5. N. Bheekhun and **A.R Abu Talib**, Aerogel: An Economic Perspective, *Engineering and Technology*, A Publication of the Malaysian Society for Engineering and Technology, MySET, Issue 34: 12 16, March-April, **2016**.
- 6. **A.R Abu Talib**, The Key to Innovation Success Part 2, *Engineering and Technology*, A Publication of the Malaysian Society for Engineering and Technology, MySET, Issue 30, Sept-Oct, **2015**.
- 7. **A.R Abu Talib**, The Key to Innovation Success Part 1, *Engineering and Technology*, A Publication of the Malaysian Society for Engineering and Technology, MySET, Issue 29, Jul-Aug, **2015**.
- 8. **A.R Abu Talib** and N.F Helme, Aerospace Education & Training Demand and Supply in Malaysia, Malaysia's National Foresight Magazine (*myForesight*), Malaysian Industry-Government Group for High Technology (MIGHT), 1: 12-17, **2015**.
- 9. **A.R Abu Talib** and A.A Mansur, National Talent Enhancement Programme, *Malaysian Rail Supporting Industry Roadmap 2030*, Malaysian Industry-Government Group for High Technology (MIGHT), p.84, **2014**.
- 10. **A.R Abu Talib**, Fostering Future Technologist in Maritime Industry, *Engineering and Technology*, A Publication of the Malaysian Society for Engineering and Technology, MySET, Issue 25: 6-10, September-October **2014**.
- 11. J. Baba, A.R Abu Talib, B. Salleh, Nurturing Today's Talent for Future Leaders, Malaysia's National Foresight Magazine (*myForesight*), Malaysian Industry-Government Group for High Technology (MIGHT), 1: 35-40, **2013**.
- 12. **A.R Abu Talib**, Towards Green and Sustainable Aeronautics, Malaysia's National Foresight Magazine (*myForesight*), Malaysian Industry-Government Group for High Technology (MIGHT), 3: 26-30, **2012**.

Keynotes/Invited Presentation

International

1. **Keynote Speaker**, Webinar "Sarasehan dan Diskusi Panel Internasional Elektronika: Mensinergitaskan dan Koloborasi antara Pendidikan Tinggi Vokasi, SMK + Lembaga Diklat Vokasi dan DUDI, dengan IoT IR 4.0, Organised by Dewan Pengurus Wilayah Persaudaraan Dosen Republik Indonesia., 28 July (**2020**).



- 2. **Invited Speaker**, Webinar "International Learning, Researching, Collaboration and Publishing with IR4.0 with IOT, Organised by Dewan Pengurus Wilayah Persaudaraan Dosen Republik Indonesia., 10 July (2020).
- 3. **Invited Speaker**, Development of Employer Perception Survey for Malaysia Integrated Rating among University and College University, FEIIC International Convention on Engineering Education & Research (FICEER), Madinah, Saudi Arabia, 1-5 November (2019).
- 4. Invited Speaker, Workshop on Equivalence Study for Engineer, Myanmar Engineering Council, Yangoon, 3 August (2019).
- 5. **Keynote Speaker**, Recent Development of Electric and Hybrid Propulsion Systems: Issues & Challenges, International Symposium on Sustainable Aviation (ISSA), Budapest, Hungary, 26-29 May (**2019**).
- 6. **Keynote Speaker**, Fire-Certification on Natural Fibre Composites Panels for Aircraft Engine Application, International Conference on Aeronautics, Astronautics and Aviation (ICAAA), Chennai, India, 23-24 March (2018).
- 7. **Invited Speaker**, Towards Sustainable Engineering Education: A Preview, FEIIC International Convention on Engineering Education & Research (FICEER), Madinah, Saudi Arabia, 16-17 December (2017).
- 8. **Invited Speaker**, World Research and Innovation Convention on Engineering and Technology, Adya Hotel, Langkawi, 25th October (2016).
- 9. **Invited Speaker**, Development of the Aerospace Industry: Charting the Path for Malaysia, Kuala Lumpur International Business Convention (KLIABC), MATRADE Convention Centre, Kuala Lumpur, 27-29th April, (**2015**).
- 10. **Invited Speaker**, Integrated Module Based Education Model for Engineering and Technology, International Engineering Education Conference (IEEC), Madinah, Saudi Arabia, (2013).

National

- 1. Invited Speaker, Aerospace Industry, Kolej Yayasan UEM, Lembah Beringin, Feb 3 (2020).
- 2. **Invited Speaker**, Route to Professional Engineer Workshop for Perbadanan Putra Jaya, Pulse Grande Hotel, Putrajaya, 18-20 Dec (2019).
- 3. **Keynote Speaker**, Human Factors in Aviation Safety, 4th International Conference on Ergonomics and 2nd International Conference on Industrial Engineering, Kuala Terengganu, 27-28 Aug (**2019**).
- 4. **Invited Speaker**, Registration of License Aircraft Maintenance Engineer with BEM, Association of Malaysia Airlines LAE (AMALAE), Malaysia Airlines Berhad, 19 July (**2019**).
- 5. **Visiting Professor Lecture**, Aerospace Industry Management, Faculty of Information Science and Engineering, Management Science University, 14 March (2019).
- 6. **Invited Lecture**, Self-Assessment Report Writing for Engineering Technician Programme Accreditation, Politeknik Banting, Department of Polytechnic Education, Ministry of Higher Education, 7-8 May (**2018**).
- 7. **Invited Lecture**, Self-Assessment Report Writing for Engineering Technician Programme Accreditation, Politeknik Kota Baharu, Department of Polytechnic Education, Ministry of Higher Education, 18-19 November (2017).
- 8. **Invited Lecture**, Self-Assessment Report Writing for Engineering Technology Programme Accreditation, UniKL MICET, 2-3 November (2017).
- 9. **Invited Lecture**, Self-Assessment Report Writing for Engineering Technician Programme Accreditation, Department of Polytechnic Education, Ministry of Higher Education, 27-29 September (2017).
- 10. **Invited Speaker**, MyQUEST Quality Evaluation System for Private Colleges, Felda Residence Hotel, Kuala Terengganu, 14 March (2017).
- 11. **Invited Speaker**, MyQUEST Quality Evaluation System for Private Colleges, Kolej Universiti Yayasan Sabah, Kota Kinabalu, 12 March (2017).
- 12. **Invited Speaker**, MyQUEST Quality Evaluation System for Private Colleges, Ministry of Higher Education, Putrajaya, 7-8 March (2017)
- 13. Invited Speaker, One Day Training on MyQUEST, Grand Continental Hotel, Langkawi, 23rd October (2016).
- 14. Invited Speaker, MyOBE Awareness Workshop, GMI Bandar Baru Bangi, September (2016).
- 15. Invited Speaker, OBE Awareness Workshop, GMI Bandar Baru Bangi, 10-11th August (2016).
- 16. Invited Speaker, One Day Training on MyQUEST, Bangi-Putrajaya Hotel, 6th August (2016).
- 17. Special Guest Speaker, Creativity and Innovation Segment, Radio Nasional FM, Wisma Radio RTM, Angkasapuri, 2nd July (2016).
- 18. **Invited Speaker**, MyOBE Awareness, Faculty of Mechanical Engineering, UiTM Shah Alam, 23rd February (**2016**).
- 19. Invited Speaker, Malaysian Rail Industry, Destini Berhad, Shah Alam, 3rd December, (2015).
- 20. **Keynote Speaker**, Aerospace Manufacturing Landscape in Malaysia, Advanced Powder Metallurgy Symposium, Seberang Perai, Penang, 17th November, (2015).
- 21. Keynote Speaker, Malaysian Aerospace Industry: Opportunities and Challenges, AeroFest, USM, 21st November, (2015).
- 22. **Keynote Speaker**, Characterization of Maerogel A Rice Husk Derived Aerogel, Advanced Materials Conference, Langkawi, 25-26th November, (**2014**).
- 23. Invited Speaker, 2-Day Awareness and Implementation of OBE, TATiUC, Kijal, (2013).
- 24. Invited Speaker, Literature Review, TATiUC, Kijal (2013)
- 25. Invited Speaker, Teaching and Learning Workshop 3-Days, TATiUC, Kijal (2013)



- 26. Invited Speaker, Outcome Based Education Workshop 2-Days, TATiUC, Kijal (2013)
- 27. Invited Speaker, Seminar on Outcome Based Engineering Education, Hilton Hotel, Kuching (2011)
- 28. Invited Speaker, Workshop on Curriculum Review and OBE, TATIUC Kuantan, (2011)
- 29. Invited Speaker, Workshop on K-Chart, BMI-UniKL, (2007)
- 30. Invited Speaker, Workshop on K-Chart, UniTEN, (2007)
- 31. Invited Speaker, Workshop on Youth for Space, ANGKASA, (2007)

<u>UPM</u>

- 1. Invited Speaker, Programme Self Review Report, Centre for Quality Assurance, UPM, 26th November (2019)
- 2. **Invited Speaker**, Outcome Based Education: Curriculum Design, Centre for Academic Development, UPM, 6th February (2018).
- 3. **Invited Speaker**, Auditing Enhancement Training on New MQA COPPA 2017, Centre for Quality Assurance, UPM, 19th September (2017).
- 4. **Invited Speaker**, University Risk Management, UPM Kampus Bintulu, 12 April 2017.
- 5. Invited Speaker, Route to Commercialization, Innovation Open Day, Faculty of Engineering, UPM, 23rd September (2016).
- 6. Invited Speaker, Effective Audit Report Writing, Centre for Quality Assurance, UPM, 29th June (2016).
- 7. **Invited Speaker**, Engineering Team @ MySET, Seminar on The Route to Become a Chartered Engineer and Professional Engineer, Faculty of Engineering, UPM, 1st April (2016).
- 8. Invited Speaker, Awareness on Outcome Based Education, Fac. of Engineering, UPM (2010)
- 9. Invited Speaker, General Awareness Training MS ISO 9001:2000, Fac. of Engineering UPM, (2007)

	Re	search Grants		
No	Project Title	Amount (RM)	Year	Source of Fund
1.	Experimental Investigation on Gas Turbine Engine Performance running on alternative fuels (<i>Leader</i>)	RM25,000	2019-2021	IPS Grant, UPM (9681600) (<i>On-Going</i>)
2.	The Effect of Heat Transfer Enhancement in Turbular Heater of Stirling Engine for Waste Heat Recovery with Different Materials and Fins Attachments (<i>Member</i>)	RM118,000	2019-2021	FRGS/1/2018/TK07/UPM/02/ 2 (5540072) (<i>On-Going</i>)
3.	Development of Hybrid Powerplants for Multi- role Unmanned Aerial Systems (<i>Member</i>)	RM60,000	2018-2020	IPM Grant, UPM (9634100) (On-Going)
4.	Kajian Pembangunan Modul Instrumen bagi Menilai Prestasi Sesebuah Institusi Pengajian Tinggi oleh Majikan (<i>Leader</i>)	RM420,221.84	2018-2019	Ministry of Higher Education Malaysia (6377900) (Completed)
5.	Strategic Partnership Travel Grant (<i>Leader</i>)	RM12,000 (EUR2500)	2018	A4U Alliance of 4 Spanish Universities (Completed) 4 ALIANZA UNIVERSIDADES
6.	Active Flow Control for Coanda Aircraft (<i>Member</i>)	RM60,000	2017-2019	IPM Grant, UPM (9537900) (Completed)
7.	Fire Testing of Aluminium Alloy with Carbon Fiber and Kenaf Sandwich Panel for Aerospace Application (<i>Leader</i>)	RM20,000	2017-2019	IPS Grant, UPM (9538500) (<i>Completed</i>)
8.	Thermodynamic and Economic Performance Optimization of an Organic Rankine Cycle System using Exhaust Heat of a Jet Engine Core (<i>Member</i>)	RM50,000	2016- 2019	IPM Grant, UPM (9498100) (Completed)
9.	Kajian Pembangunan Sistem Penarafan Universiti dan Universiti Kolej (SETARA) (<i>Member</i>)	RM2,100,000	2017-2017	Ministry of Higher Education Malaysia (6377900) (Completed)
10.	Sistem Penilaian Kualiti dan Kesetaraan Kolej	RM960,000	2017-2017	Ministry of Higher Education



	Swasta (MyQUEST) (<i>Member</i>)			Malaysia (6377900) (<i>Completed</i>)
11.	Analysis on Correlations between Preparation conditions-microstructure Properties of Graphene Aerogels (<i>Leader</i>)	RM76,000	2016- 2019	Fundamental Research Grant Scheme (FRGS) TK05/UPM/02/7 (5524896) (<i>Completed</i>)
12.	Quick Release Disposable Safety Syringe (<i>Leader</i>)	RM230,000	2014- 2016	Prototype Research Grant Scheme (PRGS) TK01/UPM/02/1 (5530400) (Completed)
13.	Fundamental Study of Temperature and Heat Flux Measurements made in Aeronautical- Certified Propane-Air Burner (<i>Leader</i>)	RM86,500	2014- 2016	Fundamental Research Grant Scheme (FRGS) (5524611) (<i>Completed</i>)
14.	Modelling of Proof-of-Concept Prototyping of Coanda Jet Dynamics Performance Enhancement for Micro Air Vehicle (<i>Leader</i>)	RM8,000	2014- 2015	IPS Grant, UPM (9433914) (<i>Completed</i>)
15.	Detailed Investigation on the Factors Affecting Thermochromic Liquid Crystal Calibrations (<i>Leader</i>)	RM13,500	2014- 2015	IPS Grant, UPM (9429300) (Completed)
16.	Fire Testing (<i>Leader</i>)	RM10,000	2013-2014	Geran Sanjungan UPM (6385800) (<i>Completed</i>)
17.	Establishing Surface Sensible Heat Transfer Properties Utilizing Thermochromic Liquid Crystal (<i>Leader</i>)	RM103,200	2011-2013	Experimental Research Grant Scheme (ERGS) (5527022) (Completed)
18.	Development of Inconel 718 Parts using Super Critical Carbon Dioxide (CO ₂) Debinding Technique for Potential Aerospace Industry Application (<i>Member</i>)	RM282,600	2011-2013	ScienceFund, MOSTI Project no. 03-03-02-SF0148 (Completed)
19.	Student-Centered Learning; UPM's Experience (<i>Member</i>)	RM50,230	2011-2012	Research University Grant Scheme, 06-03-11-1459RU, (Completed)
20.	Cooling enhancement on Aero Engine Combustor Liner (<i>Leader</i>)	RM45,580	2010-2012	Fundamental Research Grant Scheme (FRGS), MoHE Project no. 02-10-10-927FR (<i>Completed</i>)
21.	Fluids Mixing Characteristics for Aeroengine Combustion (<i>Leader</i>)	RM189,000	2009-2012	Research University Grant Scheme (RUGS), UPM (<i>Completed</i>)
22.	Measurement of Heat Transfer in Dimpled Channels using Thermochromic Liquid Crystals (<i>Leader</i>)	RM101,745 (AUS\$ 29,925)	2008-2009	UNSW Engineering-ADFA International Research Collaboration Scheme (Completed) UNSW@ADFA CANBERRA • AUSTRALIA
23.	Fundamental Study of Vacuum Cooling Technique for Non-Porous Materials (<i>Member</i>)	RM105,000	2008-2009	Fundamental Research Grant Scheme (FRGS), MoHE Project no. 07-10-07-392FR (<i>Completed</i>)



24.	Adopting Eddy Viscosity Hyphothesis in the Development of a Specific-Purpose Computer Code (<i>Member</i>)	RM80,000	2006-2009	Fundamental Research Grant Scheme (FRGS), MoHE Project no. 02-01-07-046FR (<i>Completed</i>)
25.	Advancement of Thermochromic Liquid Crystal Technique in Experimental Heat Transfer Testing on Aero Engine Components (<i>Leader</i>)	RM115,996	2006-2009	Sciencefund, MOSTI, Project no. 04-01-04-SF0601 (<i>Completed</i>)
26.	Experimental Investigation on the Hysteresis in Thermochromic Liquid Crystal for Heat Transfer Testing (<i>Leader</i>)	RM106,493	2006-2008	Fundamental Research Grant. Scheme, MoHE Project no. 01-01-07-032FR (<i>Completed</i>)
27.	The Significance of Solar Radiation on Under Cowl Temperature (<i>Leader</i>)	RM10,000	2005-2006	Skim Penyelidikan Pensyarah Lantikan Baru, UPM (<i>Completed</i>)
28.	Significance of Solar Radiation on Undercowl Temperature (<i>Leader</i>)	RM11,000 (GBP2,000)	2004-2005	Rolls-Royce plc. UK (Completed)

Awards/Recognition Name of Award Title **Award Authority** No. **Award Type** Year Best InnoCreative Educator in PUTRA InnoCreative Carnival In 1. PUTRA **UPM** 2019 Teaching and Learning, UPM InnoCreative Alternative Assessments **1** '19 Award 2. **SARES Young** Sustainable Aviation Research Society International 2019 Scientist (SARES) Award Silver Award International Science Technology International 2018 3. Sugar Rocket Propulsion **Engineering Mathematics Olympiad** ISTEMO ISTEMO, Serdang, Malaysia. 4. Bronze Medal Development of Inconel 718 25th International Invention, International 2014 Parts using Super Critical Innovation & Technology Exhibition Carbon Dioxide (CO₂) Debinding (ITEX), K.L Malaysia. Technique for Potential Aerospace Industry Application 5. Silver Medal 2013 A System to Administer an International Conference & Exposition International Commercial -Outcome Based Education on Inventions of Institutions of Higher ization Learning (PECIPTA), KLCC, Malaysia Category 6. Bronze Medal Non-Penetrative Vacuum Blood International Conference & Exposition International 2011 Container on Inventions of Institutions of Higher Learning (PECIPTA), KLCC, Malaysia 7. Bronze Medal A System to Administer an International Conference & Exposition International 2011 Outcome Based Education Open on Inventions of Institutions of Higher

Learning (PECIPTA), KLCC, Malaysia

Category



				Molaysia	
8.	Silver Medal	SJ-Safety Syringe	BioMalaysia Conference & Exhibition, Malaysia	National BIOMALAYSIA 2011 2011 FACIFIC THE SHAWIT	2011
9.	Gold Medal	Multi-Purpose Safety Syringe	Research Innovation and Commercialization Exhibition (PRPI), Universiti Putra Malaysia, Malaysia	UPM	2011
10.	Bronze Medal	Micro Gas Turbine Engine Performance Test Rig	International Engineering Invention and Innovation Exhibition (i-ENVEX), UniMAP	International	2011
11.	Gold Medal	A System to Administer an Outcome Based Education	Malaysian Technology Exhibition (MTE), KLCC, Malaysia	National Mataysla TECHNOLOGY EXPO MTE 2011 As insurinted figure in Floating.	2011
12.	Silver Medal	Non-Penetrative Vacuum Blood Container	Malaysian Technology Exhibition (MTE), KLCC, Malaysia	National M All A Y S I A TECHNOLOGY EXPO	2011
13.	Silver Medal	A System to Administer an Outcome Based Education	Research Innovation and Commercialization Exhibition (PRPI), Universiti Putra Malaysia, Malaysia	UPM	2010
14.	Gold Medal	Non-Penetrative Vacuum Blood Container	Research Innovation and Commercialization Exhibition (PRPI), Universiti Putra Malaysia, Malaysia	UPM	2010
15.	Bronze Medal	Thermochromic Liquid Crystal Technique for Heat Transfer Measurements	Research Innovation and Commercialization Exhibition, Faculty of Engineering, Universiti Putra Malaysia, Malaysia	UPM	2006
16.	Bronze Medal	Composite semi-elliptic suspension spring	Research Innovation and Commercialization Exhibition, Faculty of Engineering, Universiti Putra Malaysia, Malaysia	UPM	2006
17.	Consodilation Prize	Sistem Pengurusan Kualiti – Putra 3Q	Pertandingan Konvensyen Kumpulan Meningkat Mutu Kerja (KMK), Negeri Selangor	National	2006
18.	Edgell Sheppee Award	Travel Grant	Exeter College, University of Oxford	International EXETER COLLEGE OXFORD	2001

Professional Services/ Consultation

Professional Services

<u>International</u>

- 1. Secretary General, SouthEast Asia Network on Aerospace Engineering (SANAE) (2019-to date)
- 2. Chair, International Symposium on Sustainable Aviation (ISSA), Langkawi (2020).
- 3. **International Technical Committee Member**, International Symposium on Aircraft Technology, MRO and Operations (ISATECH), Amsterdam (2019)
- 4. Advisory Board (Int. Scientific Committee), International Symposium on Sustainable Aviation (ISSA), Budapest (2019)
- 5. Joint Chair, 4th SouthEast Asia Workshop on Aerospace Engineering (SAWAE), Kuala Lumpur (2018-2019).
- 6. **Executive Board Member**, SouthEast Asia Network in Aerospace Engineering (SANAE), **2018-2020**.

Pecipla 2011



- 7. International Technical Committee Member, 2nd Asia Conference on Mechanical and Aerospace Engineering, Singapore (2018).
- 8. **International Technical Committee Member**, 3rd SouthEast Asia Workshop on Aerospace Engineering (SAWAE), Katsetsart University, Bangkok Thailand (**2018**).
- 9. International Technical Committee Member, International Conference on Aeronautics, Astronautics, and Aviation (ICAAA), Chennal, India (2018).
- 10. Committee Member, FEIIC International Engineering Education and Research Convention (FICEER), Madinah, Saudi Arabia (2017).
- 11. Chairman, International AEROTECH VI Conference: Innovation in Aerospace Engineering and Technology, Kuala Lumpur (2016).
- 12. Joint Chair, World Research & Innovation Conf. on Engineering & Technology (WRICET), Langkawi (2016).
- 13. **Subject Matter Expert**, Rail signaling and communications training modules technology transfer with THALES companies in France, Portugal and Spain under the offset programme organised by Technology Depository Agency (TDA) MiGHT (**2015**).
- 14. Programme Director, Outreach to School III at Langkawi, Sponsored by BAe Systems UK (2015).
- 15. **Head of Delegation** and **Subject Matter Expert**, Technology transfer programme for human capital training modules for Rail rolling stock with China Southern Rail company and KTMB, A Project under the Technology Depository Agency (TDA), MiGHT (2014).
- 16. Programme Director, Outreach to School II at Langkawi, Sponsored by BAe Systems UK (2013).
- 17. **Committee Member**, International Engineering Education Convention (IEEC), Federation of Engineering Institutions in Islamic Countries (FEIIC), Madinah, Saudi Arabia (**2013**).
- 18. Programme Director, Outreach to School at Bintulu, Sponsored by BAe Systems UK (2012)
- 19. **Chief Operating Officer**, Aerospace Malaysia Innovation Centre (944751-A), An international organisation established together with AIRBUS, Rolls-Royce, MiGHT, CTRM and UPM, A company limited by guaranteed by the Malaysian Government (**2011**).
- 20. **Committee Member**, International Engineering Education Convention (IEEC), Federation of Engineering Institutions in Islamic Countries (FEIIC), Madinah, Saudi Arabia (**2011**).
- 21. **Chairman**, Conference on Aerospace and Mechanical Engineering (CAME), World Engineering Congress, Kuching, Sarawak (2010)
- 22. **Treasurer**, International Engineering Convention (InTEC), Federation of Engineering Institutions in Islamic Countries (FEIIC), Damascus, Syria (2009).
- 23. Treasurer, World Engineering Congress, Federation of Engineering Institutions in Islamic Countries (FEIIC), Penang (2008).
- 24. **Treasurer**, International Engineering Convention (InTEC), Federation of Engineering Institutions in Islamic Countries (FEIIC), Jeddah, Saudi Arabia (2007).
- 25. **Executive Committee Member**, Regional Office, Federation of Engineering Institutions in Islamic Countries (FEIIC) (**2005** present)

International: Journal Editor

- 1. Journal of Aircraft and Spacecraft Technology, Science Publications, Dubai, UAE (ISSN: 2523-1197)
- 2. Journal of Aeronautics, Astronautics, and Aviation, iPress, The Aeronautical and Astronautical Society of the Republic of China (ISSN: 1990-7710) (ESCI, SCOPUS Index).
- 3. International Journal of Education Sciences and Learning Technology, Nobel Science and Research Center, Turkey (ISSN: 2636-7920)
- 4. American Journal of Engineering and Applied Sciences, Science Publications, Dubai, UAE (ISSN: 1941-7039) (SCOPUS Index).
- 5. FEIIC International Journal of Engineering and Technology, Federation of Engineering Institution for Islamic Countries (FEIIC) (ISSN: 1823-1039)
- 6. Journal of Fluid and Structure Mechanics (JFSM), Scientific Academia (ISSN:2716-5809)
- 7. Fluid Dynamics and Materials Processing (FDMS), Tech Science Press, USA (ISSN: 1555-2578) (SCOPUS Index).

International: Journal Reviewer

- 1. Experimental Thermal and Fluid Science, ELSEVIER (JCR Q1)
- 2. Flow Measurement and Instrumentation, ELSEVIER (JCR Q1)
- 3. Journal of Aerospace Engineering, American Society of Civil Engineers (JCR Q2)
- 4. FEIIC International Journal of Engineering and Technology, Federation of Engineering Institution for Islamic Countries (FEIIC).
- 5. International Journal of Automotive and Mechanical Engineering, Universiti Malaysia Pahang (SCOPUS).
- 6. Energy, ELSEVIER (JCR Q1 Top 10%)
- 7. Journal of Thermal Science and Engineering Application, ASME (JCR Q3)
- 8. International Journal of Sustainable Aviation, Inderscience (ESCI)
- 9. Journal of Aeronautics, Astronautics and Aviation (ESCI, SCOPUS)
- 10. Powder Technology, ELSEVIER (JCR Q1)
- 11. Aircraft Engineering and Aerospace Technology, EMERALD (JCR Q3)



National: Professional Body/ Society

- 1. Chair, Working Committee for Pathway for Engineering Technologist to Graduate Engineer, E&Q Committee, Board of Engineers Malaysia (2019-2020)
- 2. Member, Working Committee for Customer Service Management, IT Committee, Board of Engineers Malaysia (2020-2021)
- 3. **Membe**r, Working Committee for Professional Assessment Examination, E&Q Committee, Board of Engineers Malaysia (2020-2021)
- 4. **Chair**, Working Committee for Marine Engineering Qualifications Equivalency Study, E&Q Committee, Board of Engineers Malaysia (2019-2020)
- 5. Board of Director, Terengganu Science & Creativity Centre, PSKT (2019-2020)
- 6. **Chair**, Working Committee for Aircraft Maintenance Engineering Qualifications Equivalency Study, Qualifications and Examination Committee, Board of Engineers Malaysia (2018-2019)
- 7. **Membe**r, Working Committee for Professional Assessment Examination PAE, Qualifications and Examination Committee, Board of Engineers Malaysia (2018-2020)
- 8. Vice President, Malaysian Society for Engineering & Technology (2018 2021)
- 9. Lead Panel Auditor Engineering Technology Accreditation Council ETAC, Board of Engineers Malaysia (BEM), (2018 present)
- 10. Member, Examination and Qualification Committee, Board of Engineers Malaysia (2017 present)
- 11. **Member**, Accreditation and Qualification Committee, Malaysian Society for Engineering and Technology (MySET) (**2017 present**)
- 12. **Member**, Working Committee for Engineering Technology and Engineering Technology Programme Accreditation, Engineering Technology Accreditation Council (ETAC), Board of Engineers Malaysia, (2016 2018)
- 13. Chair, Activities and Welfare Standing Committee, Malaysian Society for Engineering & Technology (2015 2018)
- 14. Chair, Young Professional Group, Malaysian Society for Engineering & Technology (MySET) (2015 2018)
- 15. Vice President, Malaysian Society for Engineering & Technology (2015 2018)
- 16. Lead Auditor, Malaysia Quality Evaluation System (MyQuest), Ministry of Higher Education (MoHE) (2015)
- 17. **Committee Member**, Malaysian Aerospace industry inter-agency committee (MIGHT, PEMANDU, SMECorp) for the new EPP8 for Aerospace Manufacturing SME development and the ongoing EPP 5 and 7 under Business Services NKEA (**2014 2015**)
- 18. Lead Auditor, Malaysia Quality Evaluation System (MyQuest), Ministry of Higher Education (MoHE) (2011, 2013, 2015, 2017)
- 19. Chairman, Innovation Conference (INNOCONF), Shah Alam (2012)
- 20. Vice President, AKEPT Young Researcher Circle, Ministry of Higher Education (MoHE) (2011 2012)
- 21. Chair, Malaysian Aerospace Engineering Deans Council, Ministry of Higher Education (MoHE) (2009 2011)
- 22. Lead Auditor, Penarafan Institut Perguruan (IPGrating), Ministry of Education (MoE) (2013)
- 23. Lead Auditor, Penarafan Politeknik (Polyrate), Department of Polytechnic Education, Ministry of Higher Education (MoHE) (2013)
- 24. **Lead Auditor**, Sistem Pengurusan Kualiti Kolej Komuniti (MySPEKK), Department of Community college Education, Ministry of Higher Education (MoHE) (**2013**)
- 25. Lead Panel Auditor Engineering Accreditation Council EAC, Board of Engineers Malaysia (BEM), (2012 present)
- 26. Chair, Young Professional Section, Malaysian Society for Engineering & Technology (mSET) (2009 2011)
- 27. Treasurer, AYRC X3: Young Researchers Conference, AKEPT, Ministry of Higher Education (MoHE) (2011)
- 28. Committee Member, Council of Engineering Deans, Ministry of Higher Education (MoHE) (2009 2011)
- 29. Monitoring Committee, LEADER in Aerospace Programme, MiGHT-Meteor (2010 2012)
- 30. Lead Trainer, Training Needs Analysis, Board of Engineers Malaysia (BEM) (2010)
- 31. Panel, HCD Aerospace Scholarship, MoHE (2010)
- 32. Member, National Aerospace Symposium (Aerotech III), K.L (2009)
- 33. Treasurer, Symposium of Engineering and Technology, Kuching (2008)
- 34. Lead Auditor, Internal Audit, BEM (2007 present)
- 35. **Member**, Quality Committee, Board of Engineers Malaysia (2007 present)
- 36. Treasurer, National Aerospace Symposium (Aerotech II), Putrajaya (2007)
- 37. Secretary, Symposium of Engineering and Technology, Putrajaya (2006)
- 38. Lead Accreditation Panel MQA for Aerospace Engineering and Technology (2005 present)
- 39. Treasurer, National Aerospace Symposium (Aerotech), Putrajaya (2005)

National: Academic Involvement

No.	<u>Item</u>	<u>Programme</u>	<u>Institution</u>	<u>Duration</u>
1.	External Assessor/Examiner	PhD in Engineering, UniTEN	UNIVERSITI TENAGA NASIONAL	2019-2021



		The state of the s	1	
2.	External Assessor/Examiner	B.Eng Tech Aeronautical (Aircraft Maintenance), Faculty of Mechanical and Manufacturing, Universiti Tun Hussein Onn Malaysia (UTHM)	UNIVERSIT BUT HUSSEIN ON Militysia	2019-2021
3.	External Assessor/Examiner	Diploma Aircraft Maintenance Engineering, Politeknik Banting, Selangor	POLITEKNIK	2019-2020
4.	External Examiner and Visiting Professor	Aerospace Engineering Field, Faculty of Information System and Engineering, Management Science University	msu management & science university	2018-2020
5.	External Assessor/Examiner	Master Aeronautic, Faculty Engineering, Universiti Teknologi Malaysia (UTM)	OUTM	2018-2019
6.	External Assessor/Examiner	B.Eng Tech Aircraft Manufacturing, Faculty of Mechanical and Manufacturing, Universiti Tun Hussein Onn Malaysia (UTHM)	UTHM Universiti Run Hussein Onn Malaysia	2018-2020
7.	Board of Studies Committee	Master of Science in Aviation Management, UniKL Malaysian Institute of Aviation Technology (MIAT)	Uni KL UNIVERSITI KUALA LUMPUR	2018-2019
8.	External Assessor/Examiner	Diploma Mechanical Engineering, Politeknik Kota Baharu, Kelantan	POLITEKNIK	2018-2020
9.	External Assessor/Examiner	B.Eng Tech Aeronautical (Aircraft Maintenance), Faculty of Mechanical and Manufacturing, Universiti Tun Hussein Onn Malaysia (UTHM)	UTHAN Linewall has Muselin Con Malaysia	2017-2019
10.	External Assessor/ Examiner	B.E Mechanical (Aeronautic), Universiti Teknologi Malaysia (UTM)	OUTM	2016-2017
11.	Board of Studies Committee	Doctor of Philosophy (Aerospace), UniKL Malaysian Institute of Aviation Technology (MIAT)	Uni KL UNIVERSITI KUALA LUMPUR	2016-2017
12.	Board of Studies Committee	Master of Engineering Technology (Aerospace), UniKL Malaysian Institute of Aviation Technology (MIAT)	Uni KL UNIVERSITI KUALA LUMPUR	2016-2017
13.	External Assessor/ Examiner	B.E Mechanical (Aeronautic), Universiti Teknologi Malaysia (UTM)	THE STATE OF THE STATE	2013-2014
14.	Industrial Advisor	B.E Mechanical (Aeronautic), Universiti Teknologi Malaysia (UTM)	OUTM	2010 – 2012

<u>UPM</u>

- 1. Lead Auditor, SWA Akreditasi, Universiti Putra Malaysia, (2020)
- 2. **Associate Fellow**, Corporate Strategy and Communication, Vice Chancellor Office, UPM (2019-2021)
- 3. Mentor, Basic Education Course Dr Ezanee Gires, CADe, UPM (2017)
- 4. Panel Jury, Vice Chancellor Fellowship Award (Teaching Category), UPM (2017-2018)
- 5. **Member**, UPM Transformation Committee 2017-2025.
- 6. Committee Member, Maklumbalas Laporan Swa Akreditasi, UPM (2017)
- 7. Committee Member, Waqaf Fasiliti Masjid, WAZAN UPM (2017)
- 8. Committee Member, Risk Management, UPM (2016 2017)
- 9. Chairman, PUTRA Bakti Central Committee, UPM (2016 2017)
- 10. Advisor and Chairman, TribunPutra Editorial Committee, UPM (2016 2017)
- 11. Mentor, Basic Education Course Dr Syamimi Saadon, CADe, UPM (2016)
- 12. Panel Evaluator, Educational Programme, Centre of Quality Assurance, UPM (2016 2017)
- 13. **Co-ordinator**, Master of Innovation & Engineering Design, (2006 2009)
- 14. **Trainer**, ISO9001:2008 Quality Management System, Faculty of Engineering UPM, (2006 2011)
- 15. Lead Auditor, Internal Audit, Faculty of Engineering, UPM (2006 2009)
- 16. Co-ordinator Internal Audit, Quality Assurance Unit, Faculty of Engineering, UPM (2004 2009)

Community

1. Yang diPertua (YDP), Persatuan Ibu bapa & Guru (PIBG), Sekolah Agama Menengah Sg. Merab Luar (SAM SML), Sepang,



- Selangor (2020 2021).
- Yang diPertua (YDP), Persatuan Ibu bapa & Guru (PIBG), Sekolah Agama Menengah Sg. Merab Luar (SAM SML), Sepang, Selangor (2019 - 2020).
- 3. Yang diPertua (YDP), Persatuan Ibu bapa & Guru (PIBG), Sekolah Agama Menengah Sg. Merab Luar (SAM SML), Sepang, Selangor (2018 2019).
- 4. Yang diPertua (YDP), Persatuan Ibu bapa & Guru (PIBG), Sekolah Agama Menengah Sg. Merab Luar (SAM SML), Sepang, Selangor (2017 2018).
- 5. **Committee Member**, Persatuan Ibu bapa & Guru (PIBG), Sekolah Agama Menengah Sg. Merab Luar, Sepang (SAM SML), Selangor (**2016 2017**).
- Yang diPertua (YDP), Jemaah Ibu bapa & Guru (JIBG), Sekolah Rendah/Menengah Integrasi Tahfiz Ilmuwan, Bandar Baru Bangi, Selangor, (2012 - 2015).

Consultation Services

Lead Consultant

- 1. 2018 Outreach to School V @ Butterworth, BAe Systems UK and MiGHT Academy, RM11,000
- 2. 2018 Street Lantern Wind Tunnel Testing, Novabright Sdn. Bhd., RM8162
- 3. 2017 Outreach to School V @ Labuan, BAe Systems UK and MiGHT-Meteor Advanced Manufacturing Sdn Bhd, RM9000
- 4. **2016** Outreach to School IV @ Kuantan, BAe Systems UK and MiGHT-Meteor Advanced Manufacturing Sdn Bhd, RM12,500
- 5. **2012** Kajian Rintis Implementasi Modul Inovasi, Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi, RM30,000
- 6. **2011** Pembentukan Modul dan Kurikulum Inovasi, Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi, RM50,000
- 7. **2011** Kursus Tambahan Graduan Kejuruteraan UniMAP, Universiti Malaysia Perlis, RM202,860
- 8. 2010 Gun Tunnel Impact Test II, Agensi Nuklear Malaysia (MINT), RM2817.50
- 9. 2009 Gun Tunnel Impact Test I, Agensi Nuklear Malaysia (MINT), RM2817.50
- 10. 2008 Wind Tunnel Testing for Vortex Generator, School of Aerospace Engineering, USM, RM17,250
- 11. 2008 Street Lantern Wind Tunnel Testing, Success Electric & Transformer Manufacturer Sdn. Bhd., RM8050
- 12. 2008 Nikkon S419-150 HPS150W and S419-250 HPS250W Wind Tunnel Test, Success Electric & Transformer Manufacturer Sdn. Bhd., RM6440
- 13. 2008 Wind Tunnel Testing for Street Lantern, Initial Electric Sdn. Bhd., RM8050
- 14. 2008 Street Lantern Wind Loading Test, Vantage Group, RM8050
- 15. 2007 Thermal and Flow Measurements on Beachcraft B200T Aircraft, Airod (M) Sdn. Bhd., RM6000

Member of Consultation Project

- 1. 2020 Wind Loading Testing For Street Lantern Using Upm Close Loop Wind Tunnel, DLUXX Elektrik Sdn. Bhd., RM8162
- 2. 2019 Street Lantern Wind Tunnel Testing, Success Electric & Transformer Manufacturer Sdn. Bhd., RM8162
- 3. 2018 Preliminary Study of CFD Analysis for Offshore Helideck, Prima Tech Solution, RM2,000
- 4. **2017** Kajian Analisa Jurang Ketersediaan Infrastruktur dan Aplikasi Komunikasi Bagi Pelaksanaan Bandar Pintar, Kementerian Komunikasi dan Multimedia, RM490,000
- 5. **2017** Perlaksanaan Sistem Pengurusan Kualiti MyQUEST 4, Jabatan Pengajian Tinggi, Kementerian Pendidikan Malaysia, RM910.600
- 2014 Perlaksanaan Sistem Pengurusan Kualiti MyQUEST 3, Jabatan Pengajian Tinggi, Kementerian Pendidikan Malaysia, RM750,000
- 7. **2013** Perlaksanaan Sistem Pengurusan Kualiti MyQUEST 2, Jabatan Pengajian Tinggi, Kementerian Pendidikan Malaysia, RM688,000
- 8. 🛮 2013 Kajian Pembangunan Instrumen Indeks Kepuasan Pelanggan dan Majikan, Kementerian Pengajian Tinggi, RM186,000
- 9. 2013 Kajian Pembangunan Sistem Penarafan Kolej Komuniti MySPeKK, Kementerian Pengajian Tinggi, RM226,000
- 10. **2013** Kajian Pembangunan Instrumen Penarafan Institusi Pendidikan Guru, Kementerian Pelajaran Malaysia, RM460,000
- 11. **2012** Pembinaan Modul Training of Trainers (ToT) dalam Bidang Project-Oriented Problem-Based Learning, Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi, RM170,000
- 12. **2010** Kajian Pembangunan Sistem Pengukuran Kualiti MyQUEST, Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi, RM1.139.900
- 13. **2010** Projek Perintis Membina Sistem Pengurusan 'Outcome Based Education', Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi, RM250,000
- 2010 Sistem Pengukuran Kualiti dan Kesetaraan Kolej Swasta, Jabatan Pengajian Tinggi, Kementerian Pengajian Tinggi, RM365.555
- 15. **2009** Bird Impact Test and Fatigue Test on F5 Canopy as per ASTM F330-89, Airod (M) Sdn. Bhd. and Royal Malaysian Airforce, RM92,000
- 16. 2009 Wind Loading Testing for Commercial Street Lantern Types PTEX STL VIII, IX, and XII, Permintex Electronic Sdn. Bhd., RM5600
- 17. **2008** Assessing the Resonance Frequency for a Flat Plate Panel Mounting System on a MARITIME Helicopter using Modal Testing Technique, Centre for Aerospace Design (CAeD) Sdn. Bhd., RM6000
- 18. 2008 Wind Loading Testing for Commercial Street Lantern Types PTEX STL I, II, III and IV, Permintex Electronic Sdn. Bhd.,



RM8050

- 19. **2008** Wind Tunnel Testing for Street Lantern, PCO Lighting Sdn. Bhd., RM8050
- 20. 2007 Commercial Street Lamp Wind Tunnel Testing, Muarlite Industry Sdn. Bhd., RM7,187.50
- 21. **2007** Peranan PIMA Sebagai Badan Bertanggungjawab ke atas Institut Memandu di Malaysia, Persatuan Institut Memandu Malaysia, RM6210
- 22. 2006 Flow Measurements Downstream of a Propeller Fan, OYL Research & Development Centre Sdn. Bhd., RM8050

Student Supervision

PhD			
No.	Name	Title	Status
1.	Ayad Farag Abd Allah Diabris (GS56867)	Heat Transfer Study on Heat Exchanger	On Going Main Supervisor
2.	Alammari Aiman Saleh Hasan (GS55448)	Experimental and Numerical Heat Transfer Study	On Going Main Supervisor
3.	Nik Kechik Mujahidah Nik Abdul Rahman (GS54734)	Waste Heat Recovery using Stirling Engine Research	On-Going Co-Supervisor
4.	Yazan Sofyan Mohamed Altarazi (GS52811)	Experimental Investigation on Gas Turbine Engine Performance	On Going Main Supervisor (Joint PhD)
5.	Sadeq Rashid Nfawa	Numerical and Experimental Study of Nanofluid flow and	On Going
	(GS51860)	Heat Transfer Characteristics in a Corrugated Channels with Vortex Generators	Main Supervisor
6.	Albuhamdan Sadeq Salman Abed (GS51110)	Heat Transfer and Fluid Flow over Microscale Backward/ Forward Facing Step utilizing Hybrid Nanofluid	On Going Main Supervisor
7.	Farah Syazwani Shahar (GS52900)	FEA Analysis and 3D Printing of an Ankle-Foot Othosis by using Kenaf composite Suitable for an Area with High Humidity and Temperature	On-Going Co-Supervisor
8.	Ismail Al-Masalha (GS52580)	Mechanical Engineering	Defer Co-Supervisor
9.	Nur Marini Zainal Abidin (GS52504)	Application of Natural Fibre Composite in UAV Wings using Finite Element Analysis	On Going Co-Supervisor
10.	Tamil Moli A/P Loganathan (GS52316)	Impact Characterization of Crystostachys Renda/ Kenaf Fibre Reinforced Poly-Carbonate Composite as an Aircraft Interior Component Application	On Going Co-Supervisor
11.	Abdul Raof Zahari (GS43553)	Development of Regulation Guideline For Future Suborbital Flight Operation In Malaysia	On Going Co-Supervisor
12.	Muhamad Hasfanizam Mat Yazik. (GS47710)	Thermo-Mechanical Properties of Shape Memory Epoxy Nanocomposites Modified with Nanoclay/CNT for Morphing Wing Skin Applications	On Going Co-Supervisor
13.	Norrahim Abu Bakar (GS47740)	Natural Bio-Composite	On Going Co-Supervisor
14.	Tabrej Khan (GS49088)	The Effect of Orientations on Mechanical Properties of Sodium Hydroxide Treated Kenaf/Jute Hybrid Reinforced Epoxy Hybrid Composites for Aerospace Applications	Thesis Submitted Co-Supervisor
15.	AlBehadili Ali Kareem Hilo (GS50612)	Experimental Investigation of The Effect of Nanofluid on the Performance Efficiency of the Heat Exchanger	Thesis Submitted Main Supervisor
16.	Noorshazlin Binti Razali (GS42466)	Impact Characterization and Thermal Analysis of Flax/ Kenaf/Epoxy Composites with the Hybridization of Different Types of Glass Fibre Reinforced Polymer	Thesis Submitted Co-Supervisor
17.	Syafiqah Nur Azrie Bt Safri	Mechanical Thermal and Impact Damage Characterization	2019



	(GS42459)	of Hybridised Long Sugar Palm/Glass Fibre Reinforced Polymer Composites	<mark>Graduated</mark> <mark>On Time</mark> Co-supervisor
18.	Ibrahim Mohammed (GS45161)	Development of Hybrid Composite Fire Blanket for Aeroengine Application	2018 Graduated On Time Main Supervisor
19.	Ain Umaira Binti Md. Shah (GS42642)	Low Velocity Impact Sandwich Structure Bamboo for Aerospace Applications	2018 Graduated On Time Co-Supervisor
20.	Kafel Abdul Azeez Mohammed (GS40375)	The Effect of Nanofluid on the Performance Efficiency of the Heat Exchanger	2018 Graduated On Time Main Supervisor
21.	Muhammad Ibrahim Nadiir Bheekhun (GS32468)	Parametric Analyses for a Single Layered Aerogel-Based Coating using Thermal Spray for Aerospace Applications	2017 Graduated Main Supervisor
22.	Riyadh Ibraheem Ahmed (GS38458)	Modeling and Proof Concept of Prototyping of Coanda Jet Lift to Drag Ratio Enhancement for Wind Turbine and Micro Air Vehicle	2016 Graduated On Time Main-Supervisor
23.	Ayad Abed Rahman (GS22313)	The Influence of Impact on Composite Ceramic/ Aramid Armour Systems	2012 <mark>Graduated</mark> <mark>On Time</mark> Main Supervisor
24.	Ashgar Pishgahi	Flow and Heat Transfer for a Tangential Jet Flow in	2012 Graduated Co-Supervisor
	(GS16861)	Sudden Expansion Channel	CO Supervisor
MS v	(GS16861) vith Thesis	Sudden Expansion Channel	co supervisor
MS v	,	Sudden Expansion Channel Title	Status
No.	vith Thesis		·
No. 1.	vith Thesis Name Azwin binti Azizul Hassan	Title	Status Defer
	vith Thesis Name Azwin binti Azizul Hassan (GS54129) Seri Nur Iman Hidayah binti Ahmad Nadzri (GS54200) Seri Nur Zumaimi binti Ahmad	Title Fire Certification of Aircraft Engine Coconut Shell Powder Reinforced Polypropylene	Status Defer Main Supervisor On-Going Co-Supervisor On-Going
No. 1. 2.	vith Thesis Name Azwin binti Azizul Hassan (GS54129) Seri Nur Iman Hidayah binti Ahmad Nadzri (GS54200)	Title Fire Certification of Aircraft Engine Coconut Shell Powder Reinforced Polypropylene Application of Marine Development of Kenaf/Glass Fibre Hybrid Composites for Bus Bumper Products A Low Velocity Impact Properties of Hybrid Pineapple Leaf and Kenaf Fibre Reinforced Vinyl Ester Composites for	Status Defer Main Supervisor On-Going Co-Supervisor
No. 1. 2. 3.	vith Thesis Name Azwin binti Azizul Hassan (GS54129) Seri Nur Iman Hidayah binti Ahmad Nadzri (GS54200) Seri Nur Zumaimi binti Ahmad Nadzri (GS54012) Ali Ahmad Mazlan	Title Fire Certification of Aircraft Engine Coconut Shell Powder Reinforced Polypropylene Application of Marine Development of Kenaf/Glass Fibre Hybrid Composites for Bus Bumper Products A Low Velocity Impact Properties of Hybrid Pineapple Leaf and Kenaf Fibre Reinforced Vinyl Ester Composites for Aerospace Application Performance Improvement of Leaf Fibre Extractor Machine and Characterization of Malaysian Pineapple	Status Defer Main Supervisor On-Going Co-Supervisor On-Going Co-Supervisor On-Going
No. 1. 2. 3. 4.	vith Thesis Name Azwin binti Azizul Hassan (GS54129) Seri Nur Iman Hidayah binti Ahmad Nadzri (GS54200) Seri Nur Zumaimi binti Ahmad Nadzri (GS54012) Ali Ahmad Mazlan (GS52223) Muhammad Imran Najeeb	Title Fire Certification of Aircraft Engine Coconut Shell Powder Reinforced Polypropylene Application of Marine Development of Kenaf/Glass Fibre Hybrid Composites for Bus Bumper Products A Low Velocity Impact Properties of Hybrid Pineapple Leaf and Kenaf Fibre Reinforced Vinyl Ester Composites for Aerospace Application Performance Improvement of Leaf Fibre Extractor	Status Defer Main Supervisor On-Going Co-Supervisor On-Going Co-Supervisor On-Going Co-Supervisor On-Going Co-Supervisor
No. 1. 2. 3. 4.	vith Thesis Name Azwin binti Azizul Hassan (GS54129) Seri Nur Iman Hidayah binti Ahmad Nadzri (GS54200) Seri Nur Zumaimi binti Ahmad Nadzri (GS54012) Ali Ahmad Mazlan (GS52223) Muhammad Imran Najeeb (GS52215) Muhammad Hafizal Hamidon	Title Fire Certification of Aircraft Engine Coconut Shell Powder Reinforced Polypropylene Application of Marine Development of Kenaf/Glass Fibre Hybrid Composites for Bus Bumper Products A Low Velocity Impact Properties of Hybrid Pineapple Leaf and Kenaf Fibre Reinforced Vinyl Ester Composites for Aerospace Application Performance Improvement of Leaf Fibre Extractor Machine and Characterization of Malaysian Pineapple (Yankee) Leaf Fibre and its Composites Investigation of Mechanical Properties and Damage Progression of Treated/Untreated Kenaf Hybrid Composites for Potential Application on EC-130 Helicopter	Status Defer Main Supervisor On-Going Co-Supervisor On-Going Co-Supervisor On-Going Co-Supervisor On-Going Co-Supervisor On-Going Co-Supervisor
No. 11. 22. 33. 44. 55. 66.	vith Thesis Name Azwin binti Azizul Hassan (GS54129) Seri Nur Iman Hidayah binti Ahmad Nadzri (GS54200) Seri Nur Zumaimi binti Ahmad Nadzri (GS54012) Ali Ahmad Mazlan (GS52223) Muhammad Imran Najeeb (GS52215) Muhammad Hafizal Hamidon (GS50158) Nur Athirah Mohd Nasir	Title Fire Certification of Aircraft Engine Coconut Shell Powder Reinforced Polypropylene Application of Marine Development of Kenaf/Glass Fibre Hybrid Composites for Bus Bumper Products A Low Velocity Impact Properties of Hybrid Pineapple Leaf and Kenaf Fibre Reinforced Vinyl Ester Composites for Aerospace Application Performance Improvement of Leaf Fibre Extractor Machine and Characterization of Malaysian Pineapple (Yankee) Leaf Fibre and its Composites Investigation of Mechanical Properties and Damage Progression of Treated/Untreated Kenaf Hybrid Composites for Potential Application on EC-130 Helicopter Door Thermodynamic and Economic Performance Optimization of an Organic Rankine Cycle System using Exhaust Heat of	Status Defer Main Supervisor On-Going Co-Supervisor On-Going Co-Supervisor On-Going Co-Supervisor On-Going Co-Supervisor On-Going Co-Supervisor Thesis Submitted Co-Supervisor Thesis Submitted Submitted
No. 1. 2.	vith Thesis Name Azwin binti Azizul Hassan (GS54129) Seri Nur Iman Hidayah binti Ahmad Nadzri (GS54200) Seri Nur Zumaimi binti Ahmad Nadzri (GS54012) Ali Ahmad Mazlan (GS52223) Muhammad Imran Najeeb (GS52215) Muhammad Hafizal Hamidon (GS50158) Nur Athirah Mohd Nasir (GS46939) Muhammad Fitri Mohd Zulkeple	Title Fire Certification of Aircraft Engine Coconut Shell Powder Reinforced Polypropylene Application of Marine Development of Kenaf/Glass Fibre Hybrid Composites for Bus Bumper Products A Low Velocity Impact Properties of Hybrid Pineapple Leaf and Kenaf Fibre Reinforced Vinyl Ester Composites for Aerospace Application Performance Improvement of Leaf Fibre Extractor Machine and Characterization of Malaysian Pineapple (Yankee) Leaf Fibre and its Composites Investigation of Mechanical Properties and Damage Progression of Treated/Untreated Kenaf Hybrid Composites for Potential Application on EC-130 Helicopter Door Thermodynamic and Economic Performance Optimization of an Organic Rankine Cycle System using Exhaust Heat of a Jet Engine Core	Status Defer Main Supervisor On-Going Co-Supervisor On-Going Co-Supervisor On-Going Co-Supervisor On-Going Co-Supervisor On-Going Co-Supervisor Thesis Submitted Co-Supervisor Thesis



IVIS V	vith Thesis		
No.	Name	Title	Status
11.	Khairul Izwan Ismail (GS47447)	BioComposite Material Reinforced Epoxy Composite Modified by Carbon Nanotube	2018 Graduated Co-Supervisor
12.	Ariff Farhan Mohd Nor (GS47435)	Enhancement of Low Velocity Impact Properties of Bamboo/ Glass Fibre Hybrid Composites Using Carbon Nanotubes for Aerospace Structural Applications	2018 Graduated Co-Supervisor
13.	Ahmad Mustafa Rayney Azmi (GS47432)	Design and Development of a Bulletproof Vest using Kenaf Fibre and X-Ray Films - Waste to Wealth	2018 Graduated Co-Supervisor
14.	Bootan Sherzad Qader (GS45642)	Numerical Investigation of Solar Air Collector	2018 Graduated Co-Supervisor
15.	Mohd Nasri Ishak (GS42540)	Development of Multi-Purpose Safety Syringe	2018 Graduated Main Supervisor
16.	Pauline Epsipha (GS38494)	A Numerical Study of Performance Characteristic In Transonic Axial Compressor Rotor Blade Using Circular Jets	2017 Graduated Co-Supervisor
17.	Hayder Abdullah Luaibi Alrazen (GS38374)	Numerical Simulation of the Effect of Combination of CNG, Diesel and $\rm H_2$ usage on the 4 Stroke Engine	2016 Graduated Co-Supervisor
18.	Ezanee Gires (GS24584)	Performance Testing of a Small Gas Turbine Engine Fuelled by Biodiesel and Kerosene Based Fuels	2013 Graduated Main Supervisor
19.	Halid Agil (GS19157)	Mitigation of Rain Attenuation in Equatorial Region for MEASAT-2 and MEASAT-3 using Orbital Diversity	2012 Graduated Co-Supervisor
20.	Thamer H. Ahmed (GS19494)	Synthesis and Characterization of Carbon Nanotubes in a Vertical Floating Catalyst Chemical Vapour Deposition Reactor	2012 Graduated Co-Supervisor
21.	Helmey Ramdhaney Mohd Saiah (GS17732)	Effects of Non-Isothermal Single Circular Impinging Jet on a Quasi-Adiabatic Flat Plate	2011 Graduated Main Supervisor
22.	Norzihan Abdullah @ Aziz (GS19903)	Development of a New Approach for Aircraft Component Modelling using CAD Technique	2011 Graduated Main Supervisor
23.	Alaa Raad (GS22241)	Effect of Vibration Frequencies on the Welding Properties of Rectangular Mild Steel Plate	2011 Graduated Co-Supervisor
24.	Amar Ali Hussein (GS21324)	Numerical Performance Evaluation of Plain Fin Tube Heat Exchanger Under Frosty Conditions	2010 Graduated On Time Main Supervisor
25.	Abu Zaid Bakar (GS17159)	Stability and Control Assessment of an Aerial Target Drone Based on a Scale Model of A-4 Skyhawk Jet Fighter	2010 Graduated Main Supervisor
26.	Zhang Si Wei (GS18447)	Experimental Investigation of a Vacuum Cooling System	2010 Graduated Co-Supervisor
27.	Nadia Abdullah (GS16827)	Effect of Film Thickness on Narrowband Thermochromic Liquid Crystal Calibration	2009 Graduated Main Supervisor
28.	Mohamed Abdel Badie Mohamed (GS15447)	Design and Finite Element Analysis of Hybrid Carbon/Glass Fiber–Reinforced Epoxy Composite Automotive Drive Shaft	2007 Graduated Co-Supervisor
29.	Gehad Goudah Soliman Mosleh Hamdan (GS15568)	Static and Dynamic Mechanical Performance of Composite Elliptic Springs for Vehicle Suspension	2007 Graduated Co-Supervisor



MS v	MS with Thesis		
No.	Name	Title	Status
30.	Irfan Abd.Rahim (GS12743)	The Development of an Experimental Facility of a Tangential Jet Flow in a Sudden Expansion Channel	2006 Graduated Co-Supervisor

No.	Name	Title	Status
1.	Tan Kiah Chuan (GS50248)	Forest Wind Speed Detector Sensor	2019 Completed
2.	Yazan Sofyan Mohamed Altarazi (GS46573)	Performance of Small Turbojet Engine using Palm-Oil Biodiesel- Jet a Blend	2018 Completed
3.	Aiman Saleh Alammari (GS43389)	Design of Smoke and Fume Extractor for Laboratory Application	2018 Completed
4.	Muhammad Hannan Baharin (GS43734)	Design and Development of Self-Charging Hybrid Power Bank	2017 Completed
5.	Mohd. Amirfaris Yazid (GS42808)	Numerical Analysis of Metal tubes Subjected to Oblique Loading using Finite Element Analysis	2017 Completed
6.	Muhammad Khalil Zakaria (GS32370)	Design Analysis of Mold and Fabrication of Dead End Clamp	2013 Completed
7.	Ahmad Fadzli Che Yaacob (GS31141)	Optimisation of Dead End Clamp for High Tension Power Cable	2013 Completed
8.	Mohd. Yusairi Mohd Yusof (GS28677)	Design Analysis of Dead End Clamp	2012 Completed
9.	Adi Azriff Basri (GS26971)	Safety Syringe Product Development	2011 Completed
10.	Siti Zuraifah Mohd Zabidi (GS26564)	Design and Development of Safety Syringe	2010 Completed
11.	Siti Aishah Adam (GS21568)	Design and Fabrication of Vacuum Chamber and Capping System for Pharmaceutical Application	2009 Completed
12.	Ummi Noor Nazahiah Abdullah (GS20240)	Blood Container, Capping and Vacuuming Parts Modular Concept Design and Development for Vacuum Blood Container	2009 Completed
13.	Hafizah Mohd Nasir (GS19523)	Thermal Infrared Sensor Characteristic: A Study on the Colour Temperature and Emissivity Utilizing Blackbody Fitting Method	2008 Completed
14.	Marini Abdul Hamid (GS16870)	TNBMON: TNB Substation Monitoring System	2008 Completed
15.	Rashidi Rahim (GS17861)	Design and Development of a New Composite Firewall for Light Sport Category Aircraft	2008 Completed
16.	Jaronie Mohd Jani (GS17482)	Power Train-Dyno Management System	2007 Completed
17.	Mohd. Azwir Azlan (GS15904)	Design and Develop a Lubricant Test Device for CVT Application	2007 Completed

Student Examination (Internal/External Examiner/ Chairman)

Doctor of Philosophy			
No.	Name	Title	Year
1.	Ahmad MR N Alrashidi	Potential Alternative Fuel by Combustion of Bio-Fuel and	2020
	GS43323	Plasma Technology in the Operation Jet Engine	
	Universiti Putra Malaysia (UPM)		
	(Internal Examiner)		
2.	Norhafizah Mohamad Dasuki	Conceptual Development of Passenger Standing Cabin	2020
	(GS39366)	Design for Commercial Transport Aircraft: A Malaysian Case	
	Universiti Putra Malaysia (UPM) (Internal Examiner)	Study	
3.	Lim Chong Lye (GS32454)	Cryogenic Pipe Flow Simulation for Liquid Nitrogen under	2019
	Universiti Putra Malaysia (UPM)	Steady State Conditions	
	(Internal Examiner)		



4.	Negin Ozve Aminian (GS34666) Universiti Putra Malaysia (UPM) (Internal Examiner)	Conceptual Development of an Ergonomics Passenger Cabin Design for Potential Commercial Urban Transport Airship in Malaysia	2019
5.	Siti Norbaya Binti Daud Universiti Teknologi Malaysia (UTM) (External Examiner)	The Relationship between Leadership Skills, Competencies, Characters and Energizing Entrepreneurial Amaong Engineering Students	2019 6UTM
6.	Ummi Noor Nazahiah Abdullah Lappeenranta-Lahti University of	Design and Development Methods for a Remote-Operated off-road Vehicle Interface	2019
	Technology (LUT), Finland (External Examiner - Opponent)		LUT University
7.	Ahmad MR N Alrashidi GS43323 Universiti Putra Malaysia (UPM) (Internal Examiner)	Potential Alternative Fuel by Combustion of Bio-Fuel and Plasma Technology in the Operation Jet Engine	2019
8.	Siti Nur Mariani Mohd Yunos Universiti Tun Hussein Onn Malaysia (UTHM) (External Examiner)	A Multidisciplinary Assessment and Optimization of Synthetic Paraffinic Kerosene Fuel	2018 WITHM University Turn Hussein Oren Malitys
9.	Wan Muhammad Syahmi Wan Fauzi Universiti Teknologi MARA (UiTM) (External Examiner)	Development of Information Architecture and Novel Simulation System for Pillion Assessment Workstation	2018 Universiti Teknologi Mara
10.	Norhafizah Mohamad Dasuki (GS39366) Universiti Putra Malaysia (UPM) (Internal Examiner)	Conceptual Development of Passenger Standing Cabin Design for Commercial Transport Aircraft: A Malaysian Case Study	2018
11.	Lim Chong Lye (GS32454) Universiti Putra Malaysia (UPM) (Internal Examiner)	Cryogenic Pipe Flow Simulation for Liquid Nitrogen under Steady State Conditions	2018
12.	Negin Ozve Aminian (GS34666) Universiti Putra Malaysia (UPM) (Internal Examiner)	Conceptual Development of an Ergonomics Passenger Cabin Design for Potential Commercial Urban Transport Airship in Malaysia	2018
13.	Alsanossi Mohamed Aboghrara (GS35903) Universiti Putra Malaysia (UPM) (Internal Examiner)	Numerical and Experimental Investigation to Development of a Solar Air Heater with Impinging Jets on Corrugated Plate	2017
14.	Aidin Ghavamian (GS39914) Universiti Putra Malaysia (UPM) (Chairman)	Numerical Simulation and Experimental Investigation of Ultrasonic Guided Wave Propagation on Pipes with Defects	2018
15.	Ali Mohammed Hussein Mohsen Universiti Tenaga Nasional (UniTEN) (External Examiner)	Experimental and Numerical Study on High Speed Transient Flow in Shock Tunnel and Gun Tunnel	2017
16.	Syed Mohammed Aminuddin Aftab Universiti Putra Malaysia (UPM) (Chairman)	Experimental and Numerical Study Implementing Humpback Whale Leading Edge Tubercles	2017
17.	Ang Kiang Long Universiti Teknologi Malaysia (UTM) (External Examiner)	Mechanical and Ballistic Properties of a Polybutadiene for Meteorological Sounding Rocket Application	2016 UTM INDIBITITIAN COLOGUMALANIA
18.	Mohd Salahuddin bin Mohd Basri Universiti Putra Malaysia (UPM) (Internal Examiner)	Development of Rice Husk Ash-Based Geopolymer Binder for Fire Resistant Coating and Panel using Statistical Approach	2016
19.	Roslina Mohamad Universiti Putra Malaysia (UPM) (Chairman)	Online Bit Error Rate Stopping Turbo Iteration Criterion	2016
20.	Zurriati Mohd Ali Mechanical Engineering Universiti Teknologi MARA (UiTM) (External Examiner)	Effect of Canard Configuration on the Aerodynamics of Blended Wing Body at Low Mach Number	2015 UNIVERSITI TEKNOLOGI MARA
21.	Mohammed Abed Ahmed Mechanical Engineering Universiti Tenaga Nasional (UniTEN) (External Examiner)	Numerical and Experimental Investigations on the Flow and Heat Transfer of Nano fluids in Corrugated Channels	2014 WANTERSTIT FENANCE NASIONAL



No.	Name	Title	Status
22.	Kannan M. Munisamy	Investigation of Flow and Heat Transfer in Brake Disk Rotor	2012
22.	Mechanical Engineering	Designs	2012
	Universiti Tenaga Nasional (UniTEN)	0	UNIVERSITI TENAGA NASIONAL
	(External Examiner)		
23.	Md. Moslemuddin Fakir	Finite Element and Differential Quadrature Methods for	2009
	Aerospace Engineering	Heat Distribution in Rectangular Fins	
	Universiti Putra Malaysia (UPM)		
	(Chairman)		
Maste	er of Science		
No.	Name	Title	Year
1.	Muntasser Abdulabbas Mossa	An Experimental Study of the Performance of a	2019
	GS47857	Homogeneous Charge Compression Ignition (HCCI)	
	Universiti Putra Malaysia (UPM)	Engine Fuelled With Used Cooking Oil Based Biodiesel	
	(Internal Examiner)		
2.	Ahmad Fikri Bin Baharan	Fixed Speed Pump Turbine Runner with Improved	2018
	UniKL	Operational Flexibility Using Flapping Blade Mechanism	Uni Kl
	(External Examiner)		UNIVERSIT KUALA LUMPU
3.	Roger Ho	Experimental and Simulation Study of Low Frequency	2017
	Universiti Sains Malaysia	Synthetic Jet Cooling Performance	MITTING
	(External Examiner)		UNIVERSITI SAINS MALAYSIA
4.	Ziad Abdul Awal	The Effects of Idiosyncratic Gust Wind on Helicopter Main	2017
	Universiti Teknologi Malaysia (UTM)	Rotor Air Flow Physiognomies	OI ITA
	(External Examiner)		LOW THE SHEET THE SHOULD GE MALAY
5.	Radhwan Ali Abd Alreda	Numerical Simulation on the Effect of Mixing the LPG,	2017
	Universiti Putra Malaysia (UPM)	Hydrogen and Diesel Fuel on the Combustion	
	(Internal Examiner)	Characteristic and emission Levels in a Diesel Engine	
6.	Sadeq Rashid Nfawa	Heat Transfer Enhancement of Nanofluids in a Double	2016
	Universiti Putra Malaysia (UPM)	Pipe Heat Exchanger with Rod Inserts	
	(Internal Examiner)	Flore day Ocidation in Transidal Combantion Chamban for	2016
7.	Ong Seong Shin Multimedia University (MMU)	Flameless Oxidation in Toroidal Combustion Chamber for	2016
	(External Examiner)	Reduced Nitrogen Oxide Formation	MULTIMEDIA UNIVERSITY
8.	Wan Muhammad Syahmi Wan Fauzi	Human Machine Environment Interface Element for	2015
o.	Universiti Teknologi MARA (UiTM)	Dynamic Motorcycle Test Rig	UNIVERSIT
	(External Examiner)	, , ,	TEKNOLOG MARA
9.	Nurnida Elmira Othman	Design and Development of a Mouth Spacer for Dental	2014
	Universiti Teknologi MARA (UiTM)	Surgery Applications	UNIVERSIT
	(External Examiner)		TEKNOLOG MARA
10.	Fauzi Hussin	An Experimental Study of Oscillating Sub-Boundary Layer	2014
	Universiti Sains Malaysia (USM)	Vortex Generators Application on A Wing's Flap (re-viva)	MITTIN
	(External Examiner – reviva)		IINIVERSITI SAINS MAI AVSIA
11.	Nazmi Che Ismail	Numerical and Experimental Study on Single Bubble	2014
±±.	Universiti Sains Malaysia (USM)	Rising Behaviour with and without Heat Transfer Effect	2017
	(External Examiner)	(re-viva)	
	,	•	UNIVERSITI SAINS MALAYSIA
12.	Fauzi Hussin	An Experimental Study of Oscillating Sub-Boundary Layer	2013
	Universiti Sains Malaysia (USM)	Vortex Generators Application on A Wing's Flap	A/4 11 17 17 17
	(External Examiner)		
	-		UNIVERSITI SAINS MALAYSIA
13.	Nazmi Che Ismail	Numerical and Experimental Study on Single Bubble	2013
	Universiti Sains Malaysia (USM)	Rising Behaviour with and without Heat Transfer Effect	AA HEAD
	(External Examiner)		U-JM
			UNIVERSITI SAINS MALAYSIA
			UNIVERSITI SAINS WALATSIA



No.	Name	Title	Year
			- Tear
	Universiti Sains Malaysia (USM) (External Examiner)	Shallow Underwater Glider Platform	UNIVERSITI SAINS MALAYSIA
15.	Sevda Ahmadian	Pulse Jet Investigation	2012
	Universiti Putra Malaysia (UPM) (Internal Examiner)		
16.	Mohd. Fairuz Zakaria	3D Numerical Simulation on Aerodynamic Performance	2012
	Universiti Sains Malaysia (USM) (External Examiner)	of Flapping Using Skin Flexibility	UNIVERSITI SAINS MALAYSIA
17.	Khairul Ikhsan Yahaya	Conceptual Design of Small UAV, School of Mechanical	2011
_,.	Universiti Sains Malaysia (USM)	and Aerospace Engineering	286
	(External Examiner)		WHU 💱
			UNIVERSITI SAINS MALAYSIA
18.	Amir Aziz	Solid Propellant Propulsion	2011
	Universiti Teknologi Malaysia (UTM) (External Examiner)		UTN LOO BESTITIENOGOGIALIA
19.	Nur Farahain Zulkefli	A Numerical Study of Oscillating Sub-Boundary Layer	2011
	Universiti Sains Malaysia (USM)	Vortex Generators (SBUG) Application on a Wing's Flap	
	(External Examiner)		U-JM
			UNIVERSITI SAINS MALAYSI
20.	Aydin Khiabani	Design of Portable Shell and Tube Heat Exchanger for	2010
	Universiti Putra Malaysia (UPM) (Internal Examiner)	Solar Powered Water Distiller	
21.	Mahmod Abd. Hakim	One-Dimensional Higher-Order Compact Method Based	2010
	Universiti Putra Malaysia (UPM)	on Advection Upstream Splitting Method (AUSM) Scheme	
22	(Internal Examiner – reviva) Zuliana Ismail	for Solving Euler's Equations (re-viva) Attitude Control of Small Satellites with Reaction Wheels	2000
22.	Universiti Putra Malaysia (UPM) (Chairman)	Attitude Control of Small Satellites with Reaction wheels	2009
23.	Abolfazl Sousanabadi Farahani	Simulation of Airflow and Aerodynamic Forces Acting on	2009
	Universiti Putra Malaysia (UPM)	a Commercial Turbine Ventilator	
	(Internal Examiner)		
24.	Ali Mohamed Wahdad	Effects of Selected Shading Devices on Office Room	2008
	Universiti Putra Malaysia (UPM)	Temperature Distribution	
25	(Internal Examiner)	On a Disconsissa al High Onder Consusat Mathed Board on	2000
25.	Mahmod Abd. Hakim Universiti Putra Malaysia (UPM)	One-Dimensional High Order Compact Method Based on AUSM Scheme for Solving Euler Equations	2008
	(Internal Examiner)	AOSIVI SCHEME TO SOLVING EULET Equations	
26.	NoorFaizal Yidris	Analytical Crush Simulations of a Composite UAV	2007
	Universiti Putra Malaysia (UPM)	Fuselage Section and Experimental Correlation	
	(Internal Examiner)		
27.	Siavash Talebi Taher	A New Composite Energy-Absorbing System for Aircraft	2005
	Universiti Putra Malaysia (UPM)	and Helicopters Sub-Floor	
20	(Internal Examiner)		2005
28.	Azizuddin Abd Aziz Universiti Putra Malaysia (UPM)	Comparison between Unitary and Central Cooling system at Faculty of Engineering	2005
	(Internal Examiner)	at racuity of Liighteening	
29.	Hakim Samawi Sultan Al-Jibori	Towards an Optimum Composite Energy Absorption	2004
	Universiti Putra Malaysia (UPM)	System	
	(Internal Examiner)		
30.	Saeed Eslamian	Fretting Fatigue Crack Nucleation of 5083-H321	2004
	Universiti Putra Malaysia (UPM)	Aluminium Alloy	



INTELLECTUAL PROPERTY

Patent Granted

- 1. **2018**, Oct 16. Malaysia Patent Granted no. MY-168256-A, Non-penetrative blood container and apparatus for vacuuming the same. **A.R Abu Talib**, M.S Yahaya, U.N.N Abdullah, S.A Adam, M.N Abdul Rahman.
- 2. **2018**, Sept 4. Malaysia Patent Granted no. MY-167522-A, Safety Syringe. **A.R Abu Talib**, A.A Basri, S.Z Mohd Zabidi, M.S Yahaya, K. Mat Isa.
- 3. **2017**, July 31. Malaysia Patent Granted no. MY-163006-A, A System to Administer an Outcome Based Education, M.S Jaafar, M.J. Megat Mohd Noor, **A.R. Abu Talib**, R. Wagiran, A. Abdul Aziz, N.K Noordin, M.F Abdul Rashid and M.I Saripan.
- 4. **2017**, Jan 10. US Patent Granted no. US9539399 B2. Safety Syringe. **A.R Abu Talib**, A.A Basri, S.Z Mohd Zabidi, M.S Yahaya, K. Mat Isa.
- 5. **2016**, Sept 2. Japan Patent Granted no. JP5995844, A System to Administer an Outcome Based Education, M.S Jaafar, M.J. Megat Mohd Noor, **A.R. Abu Talib**, R. Wagiran, A. Abdul Aziz, N.K Noordin, M.F Abdul Rashid and M.I Saripan.
- 6. **2015**, Feb 10. US Patent Granted no. US8950617 B2. Non-penetrative blood container and apparatus for vacuuming the same. **A.R Abu Talib**, M.S Yahaya, U.N.N Abdullah, S.A Adam, M.N Abdul Rahman.

Patent Filed

- 1. R. Ibrahim, M.A Ahmad, M.J Suleiman, N. Johari, **A.R Abu Talib**, (2013), Injection Molding using a Novel Binder System Based on Palm Oil Derivatives, Patent Pending MyIPO PI2013004110.
- 2. A.R Abu Talib, A.A Basri, S.Z Mohd Zabidi, M.S Yahaya, K. Mat Isa (2011), Multi-Purpose Safety Syringe, Patent Pending, MyIPO PI2011700110, Patent Cooperation Treaty (PCT) PCT/MY2012/000202, Indonesia Patent POO201400215, Australia Patent 201228100794, South Africa 2014100794, India Patent 149/DELNP/2014, 2014-520154 Japan Patent and UAE Patent 106/2014, 14/130,988 US Patent filling no., 2012281233.0 Australia Patent filling no.
- 3. M.S Jaafar, M.J. Megat Mohd Noor, **A.R. Abu Talib**, R. Wagiran, A. Abdul Aziz, N.K Noordin, M.F Abdul Rashid and M.I Saripan (**2010**) A System to Administer an Outcome Based Education, Patent Pending, MyIPO PI2010003169, PCT India/Australia/US/Japan.
- 4. **A.R Abu Talib**, M.S Yahaya, U.N.N Abdullah, S.A Adam, M.N Abdul Rahman, Non-Penetrative Blood Container and Apparatus for Vacuuming the Same (**2010**), Patent Pending, MyIPO UI2010700039, Australia Patent: 2012204049, US Patent: 13547304.

Copyright and Trademark

- 1. Kamariah Hj Abu Bakar, **A.R Abu Talib**, Ahmad Fauzi Mohd. Ayub, Mohd. Shahwahid Hj. Othman, Noor Akma Ibrahim, Wong Su Luan, Zaidatol Akmaliah Lope Pihie, (**2013**), Survey of Teaching and Assessment Methods among Academics (STAM) Manual, Literacy Work Copyright, UPM.
- 2. Kamariah Hj Abu Bakar, **A.R Abu Talib**, Ahmad Fauzi Mohd. Ayub, Mohd. Shahwahid Hj. Othman, Noor Akma Ibrahim, Wong Su Luan, Zaidatol Akmaliah Lope Pihie, (**2011**), Survey of Teaching and Assessment Methods among Academics (STAM) Manual, Artistic Work Copyright, UPM.
- 3. M.S Jaafar, M.J. Megat Mohd Noor, **A.R. Abu Talib**, R. Wagiran, A. Abdul Aziz, N.K Noordin, M.F Abdul Rashid and M.I Saripan (**2010**) A System to Administer an Outcome Based Education, Derivative Work Copyright, UPM.
- 4. M.S Jaafar, M.J. Megat Mohd Noor, **A.R. Abu Talib**, R. Wagiran, A. Abdul Aziz, N.K Noordin, M.F Abdul Rashid and M.I Saripan (**2010**) A System to Administer an Outcome Based Education, TradeMark 2010022839, UPM

COMMERCIALIZED PRODUCTS

- 1. Vacuum Blood Container, SJ-VacTube (**2016**) IP was sold to SeliaTek Industries Sdn. Bhd. The product is now accepted to be used in Hospitals under the Ministry of Health, Malaysia.
- 2. Multi-purpose Safety Syringe (2016) IP was sold to SeliaTek Industries Sdn. Bhd.
- 3. Outcome Based Education Management System, MyOBE (**2010**) IP was licensed to MIQEduSys Sdn Bhd and was sold to UniSEL, UPNM, UiTM Faculty of Mechanical Engineering, GMI, King Saud University, and Department of Politechnics Education, Ministry of Higher Education.